

The Hy-tex House

OF MODERATE COST



The Hy-tex House
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*A HOUSE OF BEAUTY
GOOD INVESTMENT*

PRICE, FIFTY CENTS

HYDRAULIC-PRESS BRICK COMPANY
SAINT LOUIS

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BY THE
HYDRAULIC-PRESS BRICK COMPANY
SAINT LOUIS

Introductory

A great deal of attention is being given at present to the problem of an inexpensive house for suburbs and outlying districts; and in general there is an evident desire to combine, where possible, low cost with a certain degree of picturesqueness. One cannot, however, make the picturesque offhand and to order; it is in a great degree a matter of time. The ancient cottages, which we admire now, were not built to look picturesque; they were built in what appeared, to their constructors, to be the most economical and convenient manner; and their present charm is the effect of time and association. Their low walls, high pitched roofs, and often abnormally small windows, taken to be picturesque, have been frankly imitated, so that we repeatedly see in new houses today these very low walls and very high pitched roofs. Although the windows are not so small as in the old cottages, yet they are much smaller than the best hygienic conditions would demand.

All these attempts are bound to fail of their object because they are palpably artificial and self-conscious efforts to be picturesque—mere imitations of the former manner of building. The low walls are an element of economy in cost, or supposed to be so; but the economy, in consideration of the large roof-space required, is perhaps over-rated. In any case, it is false economy because obviously not the best or most workmanlike manner of producing a convenient interior in a small habitation. The result in the upper story is far from satisfactory, as the rooms are sure to be cut up by the sloping ceilings into inconvenient sizes or shapes.

The practical manner of solving the problem must involve putting aside sentiment and acquired association and considering how best to build houses with the methods of construction and materials now available.

In recent years, owing to the increasing tendency on the part of the American public to have homes in the country or in the open parts of cities, there has been brought about a great demand for the house of moderate cost, which will have a certain character of its own, and which the owner may point to with a sense of pride as a home reflecting his tastes.

Believing that the prospective builder would appreciate seeing in sketch form and plan a group of houses of this character, which might suggest ideas that would aid him in consulting with his architect, the Hydraulic-Press Brick Company offers this collection of drawings. It was with the desire, not only to interest more of the best architects in America in this kind of creative work, but also to afford the intending home builder helpful suggestions in formulating his plans, that this Company recently

conducted a competition for a brick house through the medium of a widely known architectural journal, *The Brickbuilder* of Boston.

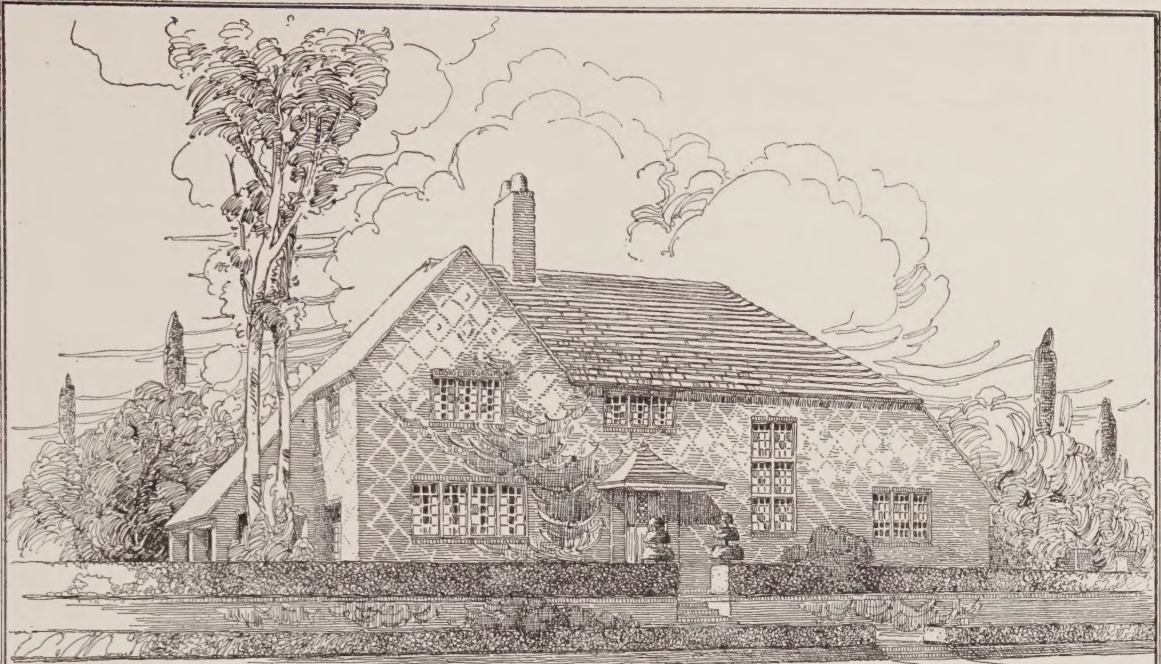
The architects who designed these houses worked with a definite program before them. The problem was a detached house, faced with Hy-tex brick, to be built complete at a cost not to exceed \$7500. Provision was to be made for the usual accommodations and conveniences for a small American family of moderate means. It was assumed that the house was to be located in a town, small city, or a suburb of a large city, on a level lot of any size or shape.

All the houses shown in this book were figured at the rate of twenty-two cents per cubic foot, which included cost of excavation, plumbing, heating, electric wiring, hardware and painting; although extravagance of individual taste for expensive interior trimming, plumbing, hardware, etc., may add appreciably to the cost. Porches and verandas were figured separately at one-fourth of their total cubage, provided they projected beyond the bearing walls, and at full cubage if included within such walls.

The jury of award was made up of five members of the architectural profession prominently connected with this class of work throughout the Middle West. First consideration was given to the design and its fitness to the material employed, and special attention to the floor plans. Nearly four hundred designs were submitted, and so general was the excellence of the work that the task of elimination and selection was no easy matter.

In presenting the following designs and plans, it is not expected that any one will commit the serious mistake of attempting to build his own house without the aid of an experienced architect. If he makes such an attempt, he may be assured that he will fall into confusion and difficulties that will both threaten the ruin of his plans altogether and run him into added costs. Technical knowledge and professional skill in the building of a house will not only secure higher artistic results, but save far more than the comparatively modest fee of the architect.

These plans will fully serve their purpose if they help to develop and give coherent form to the somewhat vague and indefinite ideas of the intending builder, when he first begins to plan a house of his own. With the belief that they will admirably serve this purpose, they have been published, and are now presented to the interested reader.



HY-TEX BRICK HOUSE COMPETITION



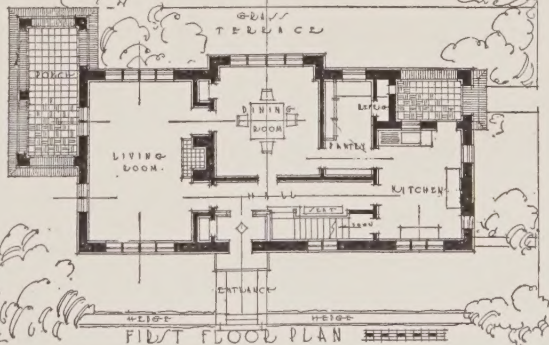
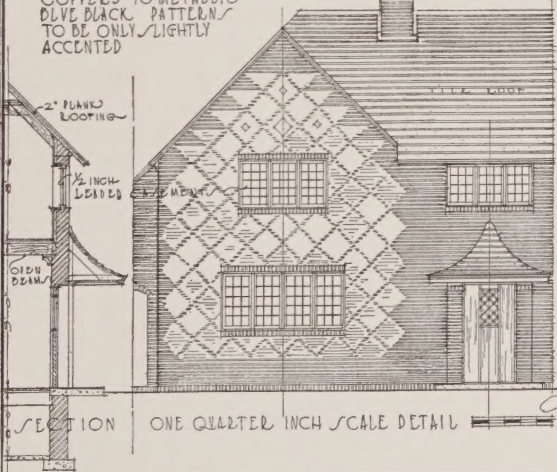
BRICKWORK-MIXED COLORS
ROUGH HY-TEX-BLOCKS FROM
LIGHT RED THEN THE MAROONS AND
COPIES TO METALLIC
OLIVE BLACK PATTERN
TO BE ONLY LIGHTLY
ACCENTED

SECOND FLOOR PLAN

THE CYBAGE

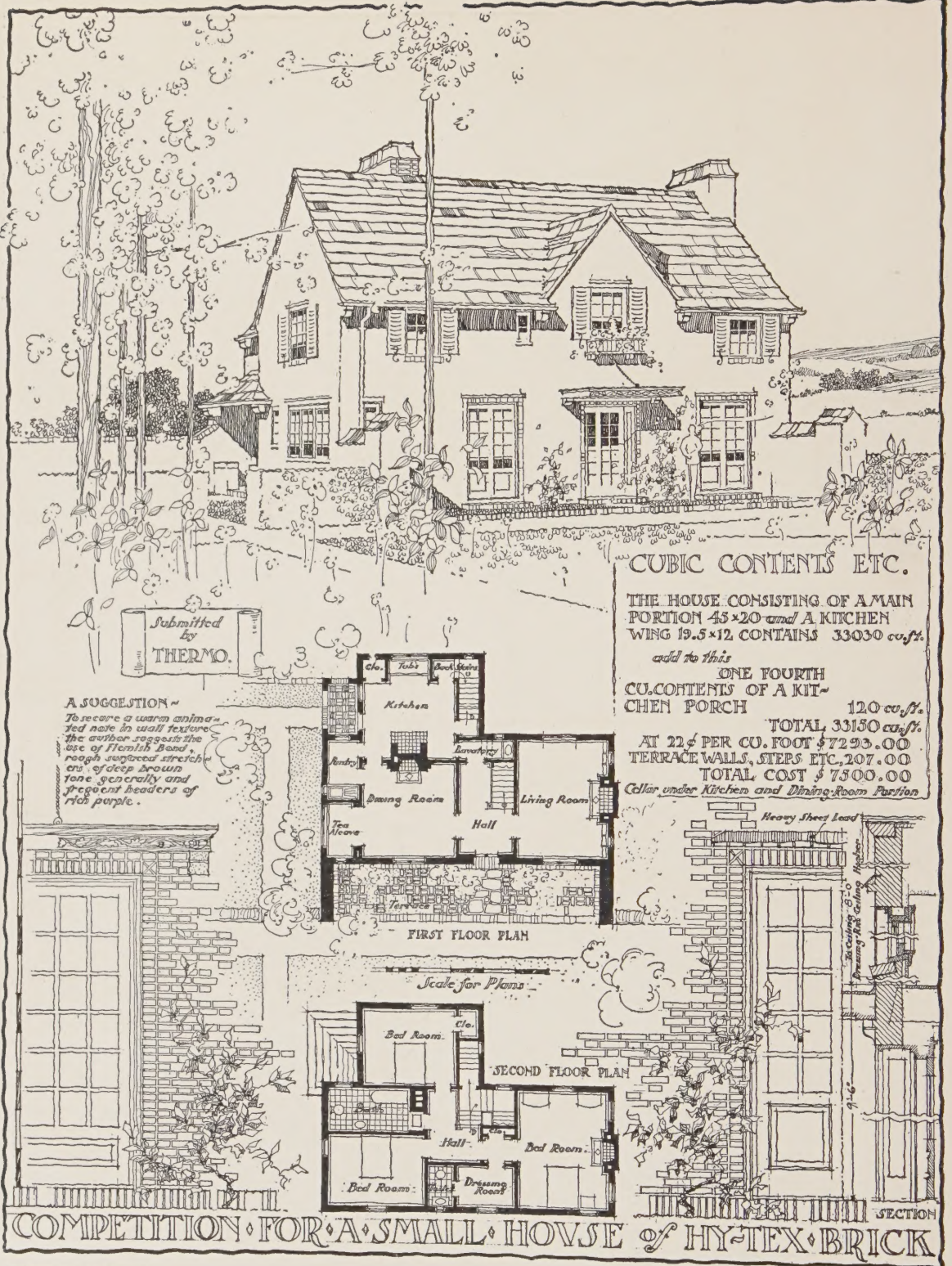
LENGTH OF HOUSE 50'-0"
DEPTH 21'-6"
HEIGHT-AVERAGE 18'-0"
HOUSE FIGURED AT 22 CENTS
A CYBIC FOOT EQUALS 6908
DOLLARS PER CH 552-00 ONLY
DAY WINDOW 104-00 DOLLARS
TOTAL COST 7444-00

SUBMITTED BY
BRICKVILDER

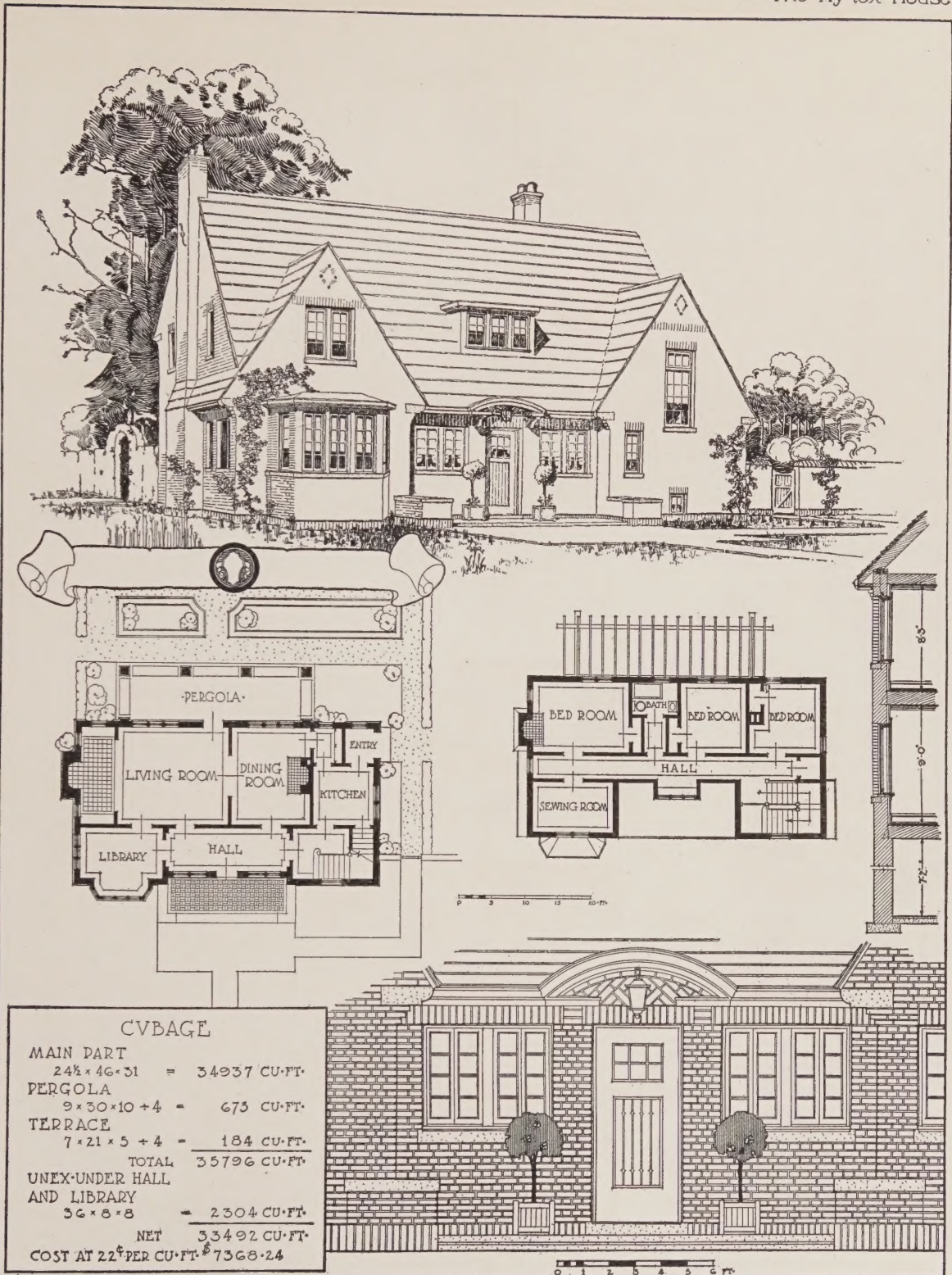


FIRST PRIZE DESIGN
SUBMITTED BY I. P. LORD
31 Beacon Street, Boston, Mass

The Hy-tex House



SECOND PRIZE DESIGN
SUBMITTED BY RICHARD M. POWERS
110 State Street, Boston, Mass.



CVBAGE

MAIN PART

$$24\frac{1}{2} \times 46 \times 31 = 34937 \text{ CU-FT.}$$

PERGOLA

$$9 \times 30 \times 10 + 4 = 675 \text{ CU-FT.}$$

TERRACE

$$7 \times 21 \times 5 + 4 = 184 \text{ CU-FT.}$$

$$\text{TOTAL} \quad 35796 \text{ CU-FT.}$$

UNEX-UNDER HALL

AND LIBRARY

$$36 \times 8 \times 8 = 2304 \text{ CU-FT.}$$

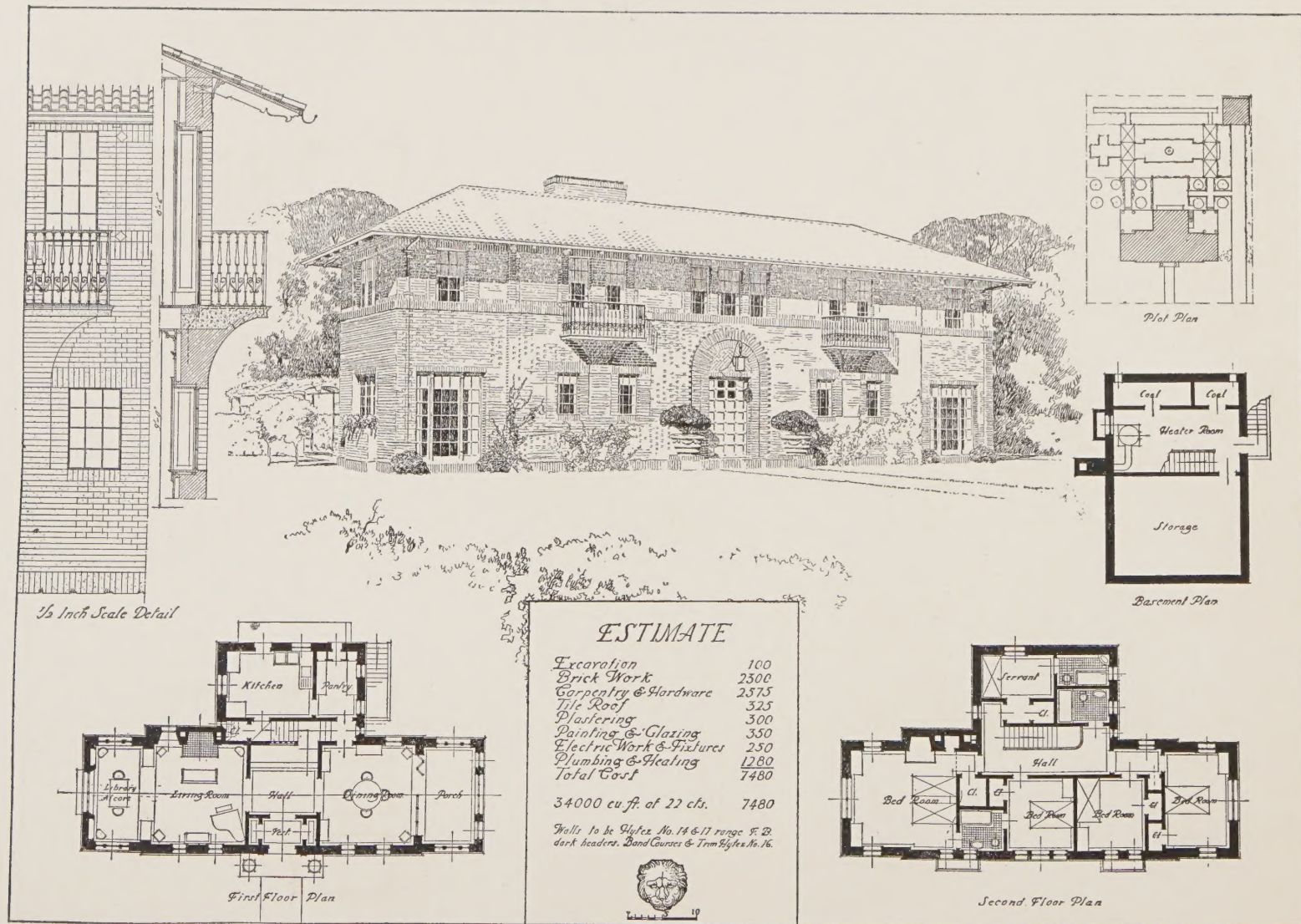
$$\text{NET} \quad 33492 \text{ CU-FT.}$$

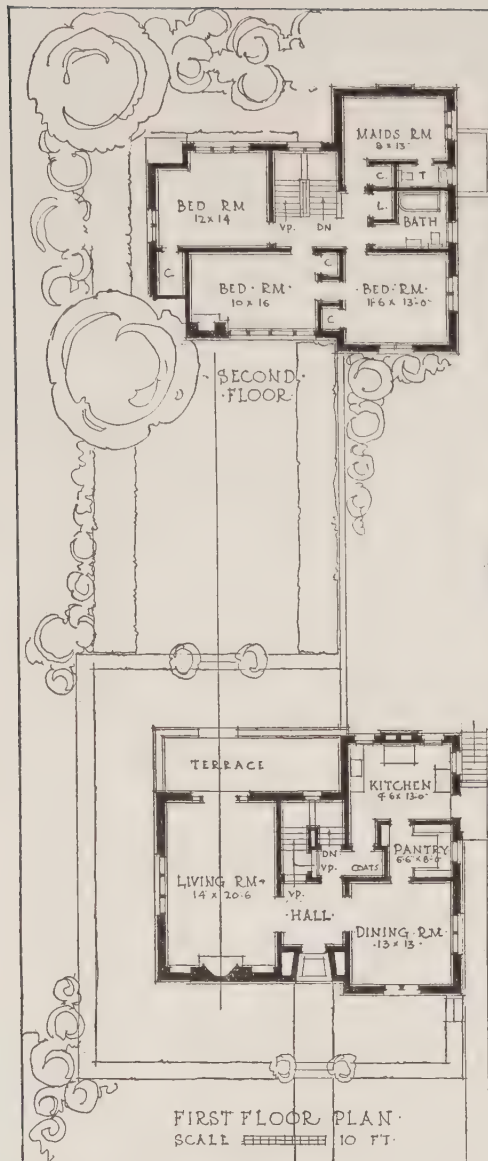
$$\text{COST AT } 22\frac{1}{2} \text{ PER CU-FT. } \$75368.24$$

THIRD PRIZE DESIGN

SUBMITTED BY J. F. MURPHY AND J. R. COLEMAN

810 Hubbell Building, Des Moines, Iowa





BRICKVILDER COMPETITION \$7,500 BRICK HOUSE

DATA ON COST OF CONSTRUCTION:
 NOT EXCAVATED UNDER LIVING RM.
 DINING RM PART $15 \times 32\frac{1}{2} \times 32\frac{1}{2} = 15,860$
 HALL " $9 \times 24 \times 32\frac{1}{2} = 7,020$
 LIVING RM " $15 \times 23\frac{1}{2} \times 29\frac{1}{2} = 10,314$
 TERRACE $\frac{1}{4} \times 8 \times 23 \times 5\frac{1}{2} = 253$
 CELLAR STAIRS $\frac{1}{4} \times 4 \times 13 \times 7 = 91$
 PORCH $\frac{1}{4} \times 4 \times 8 \times 10 = 80$
 COST EQVALS \$7395.96 @ 0.22 = 33.618
 COLOR: STRETCHERS DARK GRAY
 MATTN HEADERS GOLDEN MOTTLED

DETAIL

3 FLET

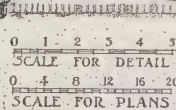
SUBMITTED



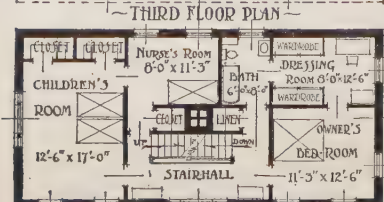
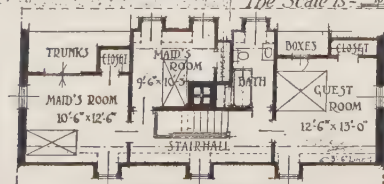
The Hy-tex House

MENTION DESIGN
 SUBMITTED BY OLAF WILLIAM SHELGREEN
 1314 Prudential Building, Buffalo, N. Y.

The
Brickbuilder
Competition
Submitted by



PLAN of the 107'-70" x 130'
1-The House, 2-The
Outer Lawn, 3-The Inner
Lawn, 4-The Flower Garden
5-The Rose Pergola. The
Hedges are shown in dotted lines.
The Scale is - 10 20 40 60



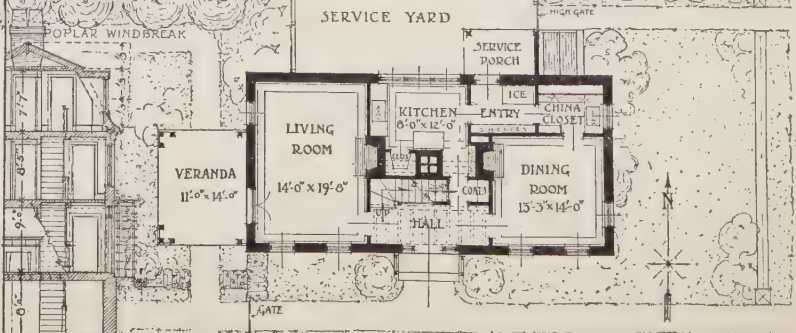
THE CUBIC CONTENTS & COSTS

Area - 22'-0" x 45'-6" = 1001 Square ft.
Height, as figured on section, 33'-0"
Making 33,033 cubic feet, & adding
Veranda, 11' x 14' x 12'-4" = 4629.6
Porch, 6' x 10' x 11'-4" = 165.4, making the
Total = 33,660 cubic feet, which
At 22 cents, would cost \$ 7,405.20

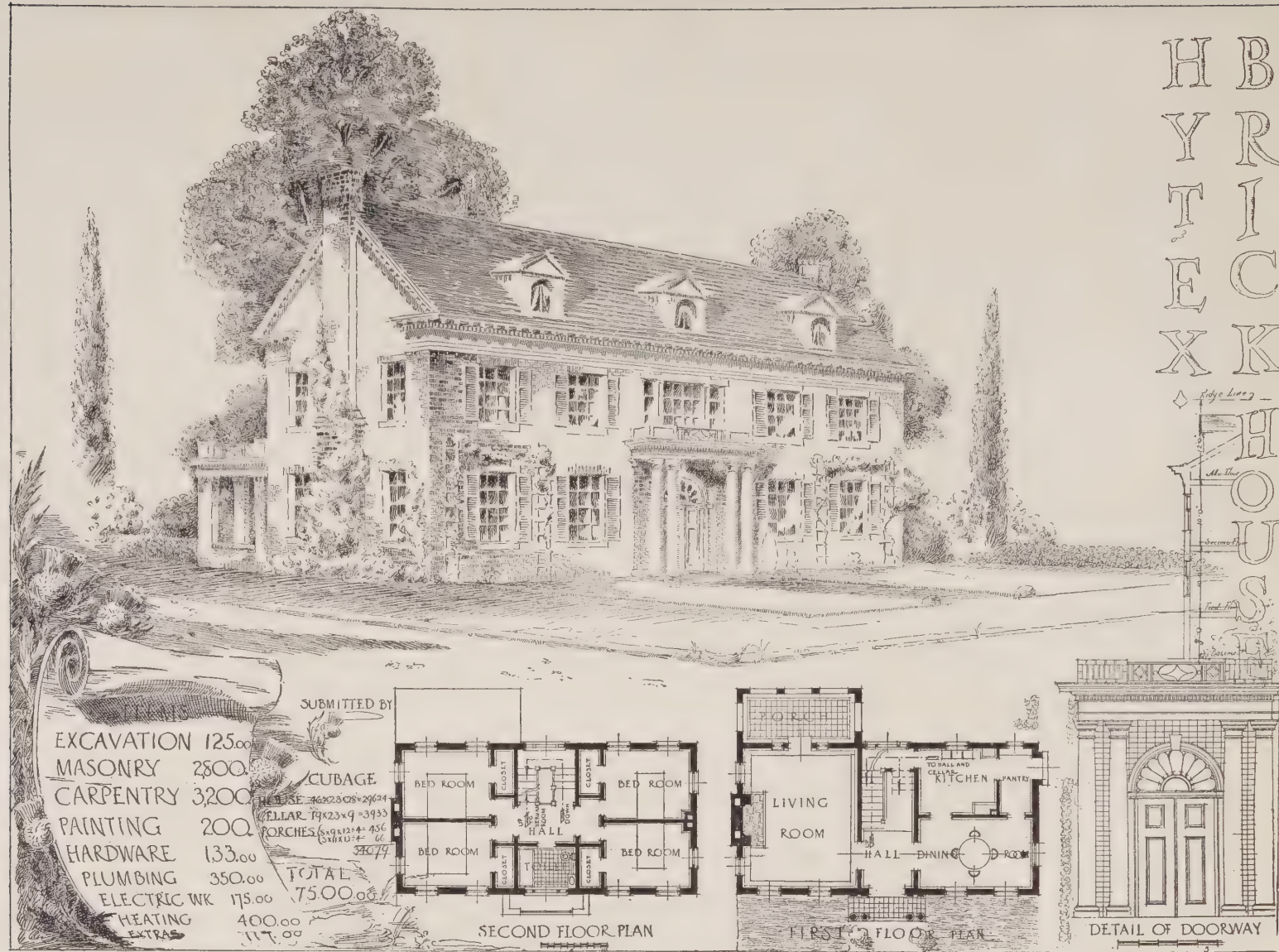
Excavation	\$ 140.00
Concrete work	100.00
Brickwork	2,750.00
Carpentry	1,250.00
Finish outside & inside	790.00
Plastering inside	340.00
Roof Rustic Grey Slate laid	300.00
Copper Gutters-Dormer Roofs	155.00
Painting	325.00
Hardware & Fixtures	210.00
Heating	320.00
Plumbing	425.00
Electric Wiring	145.00
Lathes-Details, etc.	250.00

Total of all Items ~ \$ 7,500.00

A HOUSE of HY-TEX BRICK to cost 7500 dollars
The Brick, laid up in Dutch Bond, to be Dark Colonial Red in Colour, with Darker
Burnt Headers, varying Blues-Blacks & Browns (shown on detail) alternating with
Reds. The Base-Belts, Quoins and all Window-Enframements to be all of Red Brick -
Half-inch Joints of Natural
Grey Mortar, Raked Joints.



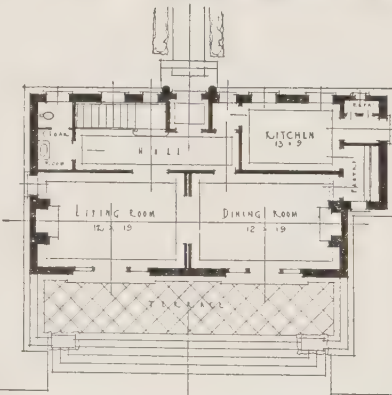
FIRST FLOOR PLAN



The Hy-tex House

MENTION DESIGN
SUBMITTED BY DUNCAN McLACHLAN, JR.
624-47th Street, Brooklyn, N. Y.

The Hy-tex House



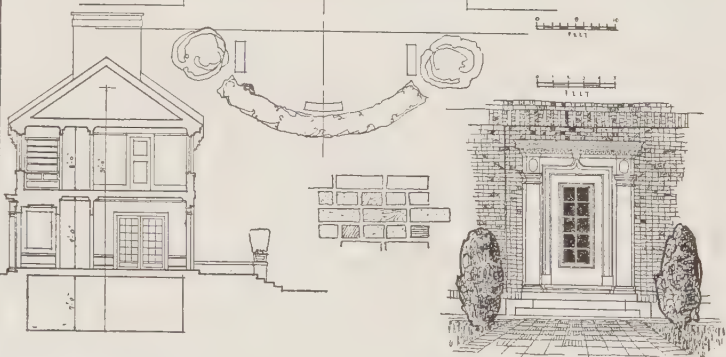
NOTE
 BRICK FACING = HY-TEX 40 OHIO 50%
 WHITE TRIM HY-TEX 50 OHIO 30%
 GREEN BLUE & PURPLE SLATE ROOF HY-TEX 60 OHIO 20%
 BLINDS PAINTED GRAY-BLUE

BRICKBUILDER COMPETITION

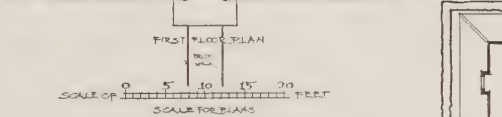
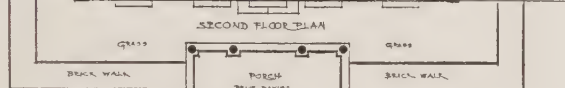
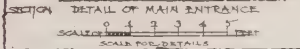
FOR A HOUSE OF HY-TEX BRICK

CUBAGE & COST	
41' X 23' X 31' + 5' X 14' X 28' =	31,193 ft
31,193 @ 22 [¢] =	\$ 6,862.00
TERRACE	400.00
TWO MANTELS	120.00
FRONT ENT. DOORWAY	100.00
BALANCE	18.00
	\$ 7500.00

SUBMITTED BY KET-YH

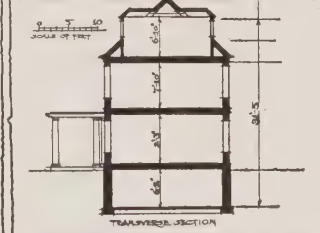


MENTION DESIGN
 SUBMITTED BY DOUGLAS RITCHIE
 1 Belmont Street, Montreal, Quebec, Canada



ELEVATION OF TYPICAL WINDOWS AND GABLES

SECTION TOP DETAILS

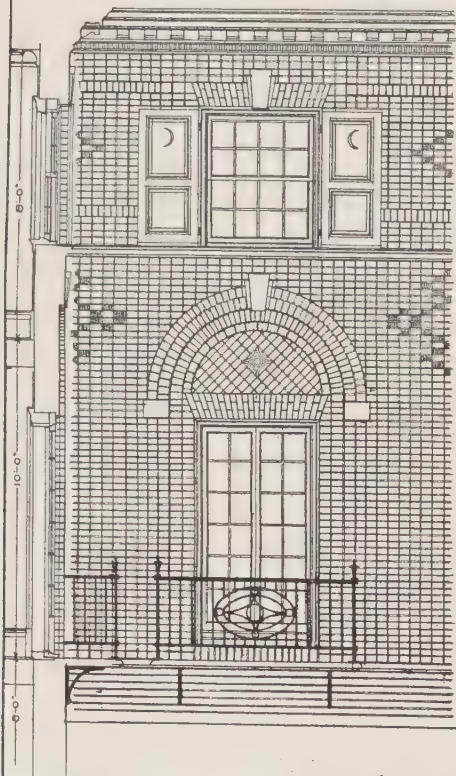


EXCAVATING	\$150
MASONRY	3050
PLASTERING	300
PAINTS, GARDENING AND HARDWARE	1000
MILL WORK	1600
ROOFING AND METAL WORK, ETC.	250
PARTING AND GLAZING	250
WARM AIR HEATING-	350
HVACBING AND RANGE	400
ELECTRIC WIRING	150
TOTAL COST	\$7500

FEB. 10, 1914

13

The Hy-tex House

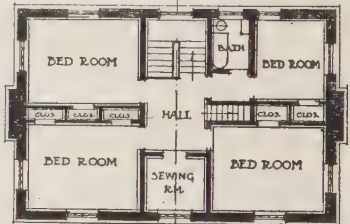


COST OF MATERIALS

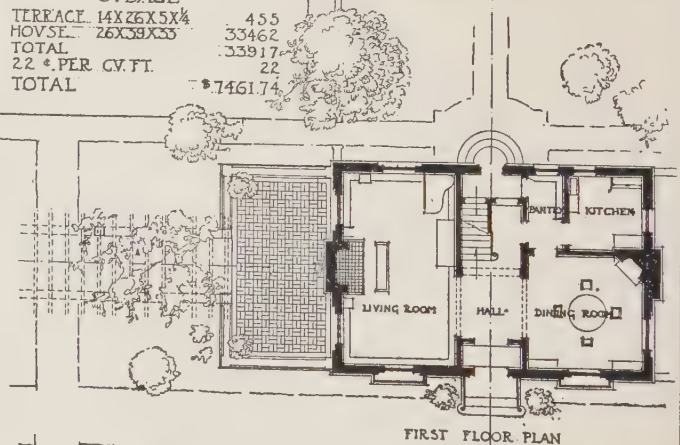
EXCAVATION	\$ 225.00
BRICKWORK	3000.00
LUMBER & CARPENTRY	800.00
MILLWORK	750.00
PAINTING	300.00
PLUMBING	325.00
HARDWARE	100.00
ELECTRIC	70.00
HEATING	225.00
ROOFING	800.00
MISCELLANEOUS	905.00
TOTAL	\$7500.00

CVBAGE

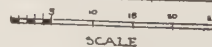
TIRREACE 14X26X5X1/4	455
HOVSE 26X38X33	33462
TOTAL	33917
22 c. PER CV. FT.	22
TOTAL	\$7461.74



SECOND FLOOR PLAN



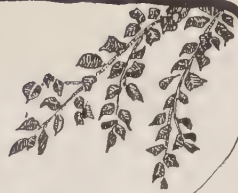
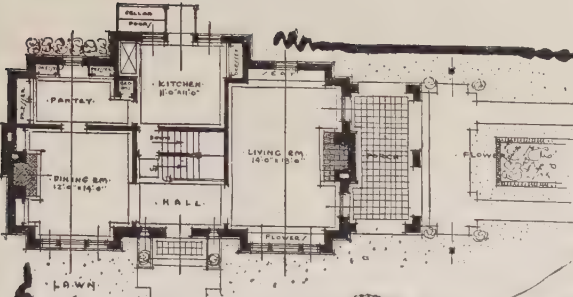
FIRST FLOOR PLAN



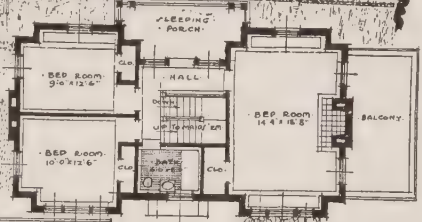
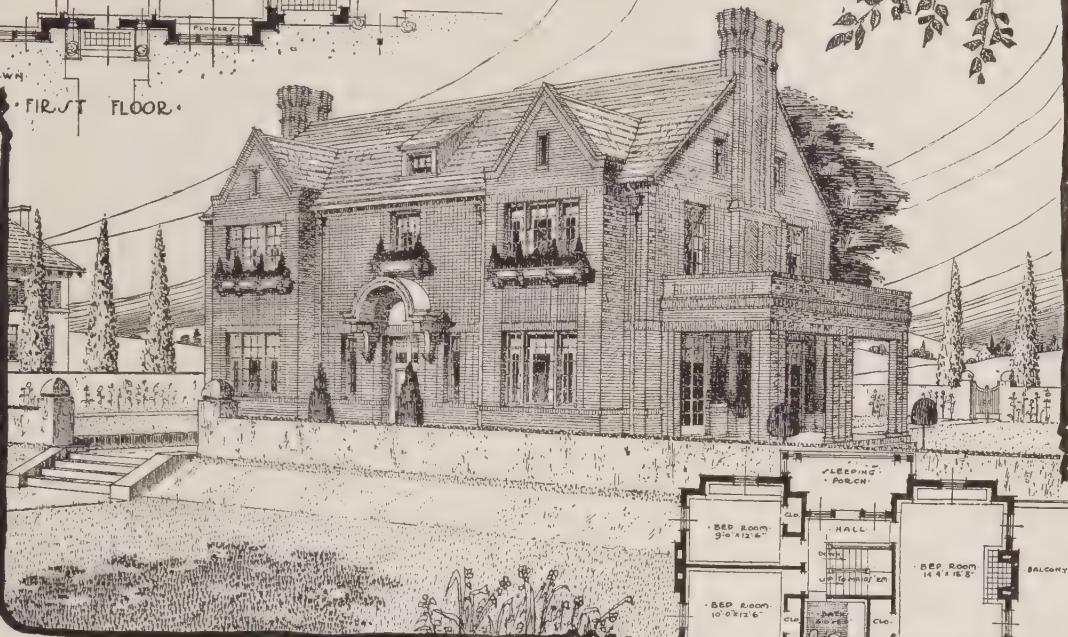
SCALE

SUBMITTED BY:

MENTION DESIGN
SUBMITTED BY ANTONIO DI NARDO
101 Park Avenue, New York, N. Y.

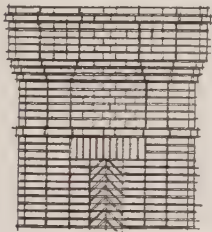


FIRST FLOOR

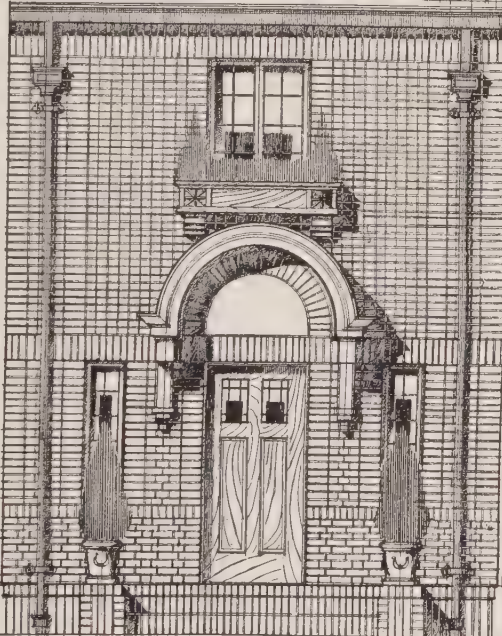
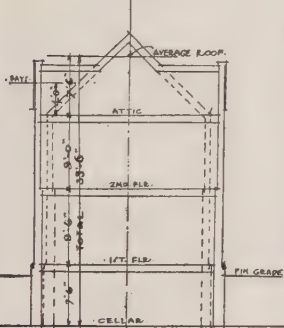


SECOND FLOOR

CHIMNEY DETAIL



SECTION



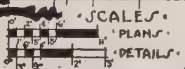
CUBIC CONTENTS

MAIN BODY	20'x42'x33'6"	=	28,140
BAYS	4 (11'6"x1'6"x30')	=	2,070
REAR PROJECTION	18'x5'x33'	=	2,970
PORCH	(18'x10'x16')÷4	=	.720
AREAWAYS		=	.100

TOTAL CU. FT. 34,000

COST 34,000 CU. FT. @ 22¢ = \$7,480

COLOR SCHEME: HY-TEX VELOUR BODY COLOR, DIVERSE PATTERN, LIGHTER SHADE. RAKED OUT JOINTS 1ST. STORY FLUSH JOINTS ABOVE 1ST. FLR. WINDOW HEADS, WHITE MORTAR.



HY-TEX BRICK HOUSE COMPETITION



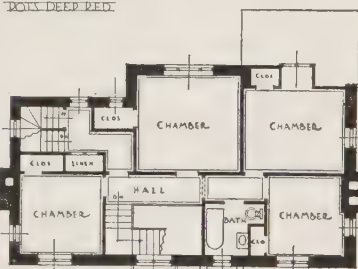
SUBMITTED BY

The Hy-tex House

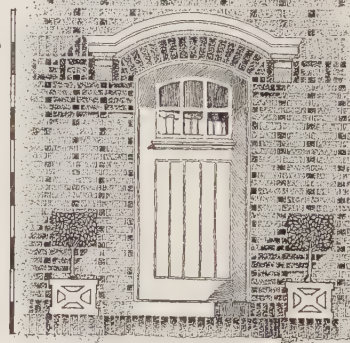
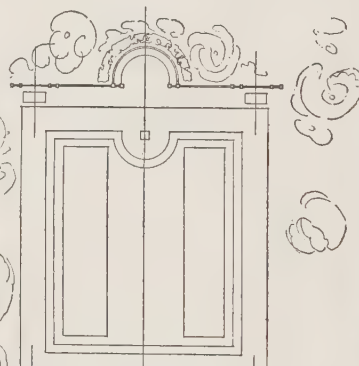


COLOR SCHEME

BRICK LIGHT RED
HEADINGS & PATTERNS DARKER SHADES
ROOF SILVER GRAY
WOODWORK WHITE
DOOR DEEP RED



SECOND FLOOR PLAN



COMPETITION

FOR A
BRICK HOUSE

TO COST \$7500
GIVEN BY

THE BRICKBUILDER

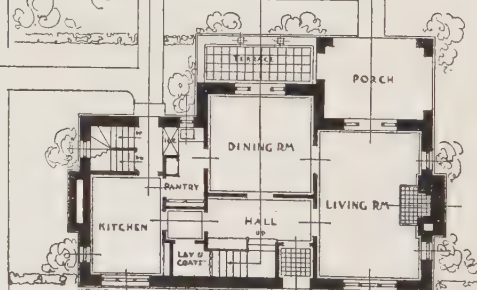
FEBRUARY 1914

SCALE FOR PLANS

SCALE FOR PERSPECTIVE & SECTION

SCALE FOR DETAIL

"HIS LAST ATTEMPT"



FIRST FLOOR PLAN

NOTES

CVBAGE IS FIGURED IN FOUR
SECTIONS. MAIN BODY OF
HOUSE 21X44X33=30492 CV
FT. DINING RM PROJECTION
4X16X33=2112 CV FT. PORCH
10X16X15÷4=306 CV FT.
TERACE 6X15X4÷4=90 CV FT.
TOTAL CV FT 33200X77=
\$730400 TOTAL COST WITH
BASEMENT UNDER ENTIRE

HOUSE

EXCAVATION 150 HEATING 650 PLASTERING 400
MASONRY 2700 PLUMBING 350 SHEET METAL 100
LUMBER 900 WIRING 100 LIGHT FIXTURES 150
CARPENTRY 550 HARDWARE 100 GAS PIPING 100
MILL WORK 500 F HARDWARE 150 PAINTING ETC 250

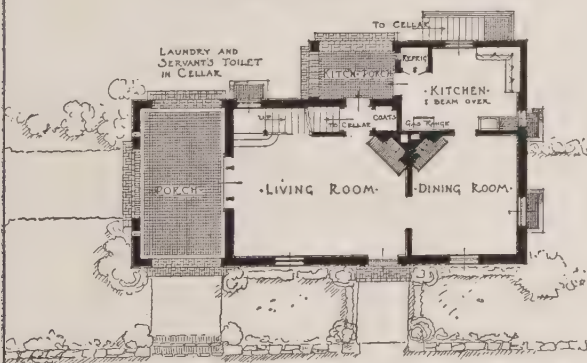
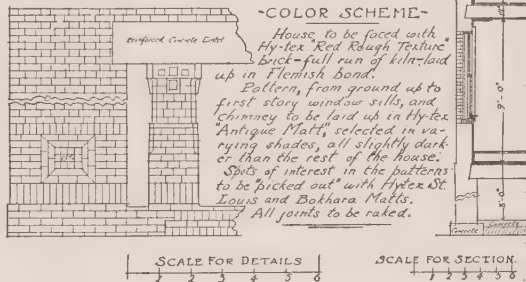
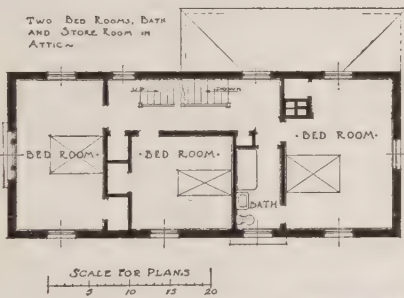
DESIGN BY WARNER A. EBBETTS
6049 Catharine Street, Philadelphia, Pa.

The Hy-tex House



-CUBAGE-		
Main Bldg. (Cellar) 37'-20" x 24'-2445.12	224	5483.20
No. 11' x 20' x 20' = 4400	11	155.15
Kitchen Wing 14' x 7' x 18' = 1008	18	181.45
Porch 10' x 7' x 19' = 1043	19	56.40
Areas		70.19
	TOTAL	7500.00

-ITEMS OF COST-	
Excavating	75.
Foundations, Brick or Stone	330.
Brickwork & Fireplaces & Paving	2060.
Flue Lining	15.
Kt. Ceilng, Linols. & Cellar Floor	300.
Flooring & Rough Lumber	530.
Carpenters & Rough Labor	900.
Millwork	800.
Slate Roof	225.
Plastering	370.
Sheet Metal Work	125.
Steel Beam & Small Irons	30.
Plumbing	500.
Heating, Hot Water	510.
Electric Wiring	170.
Painting & Glazing	265.
Hardware & Nails	145.
Miscellaneous	100.
TOTAL	\$7500.

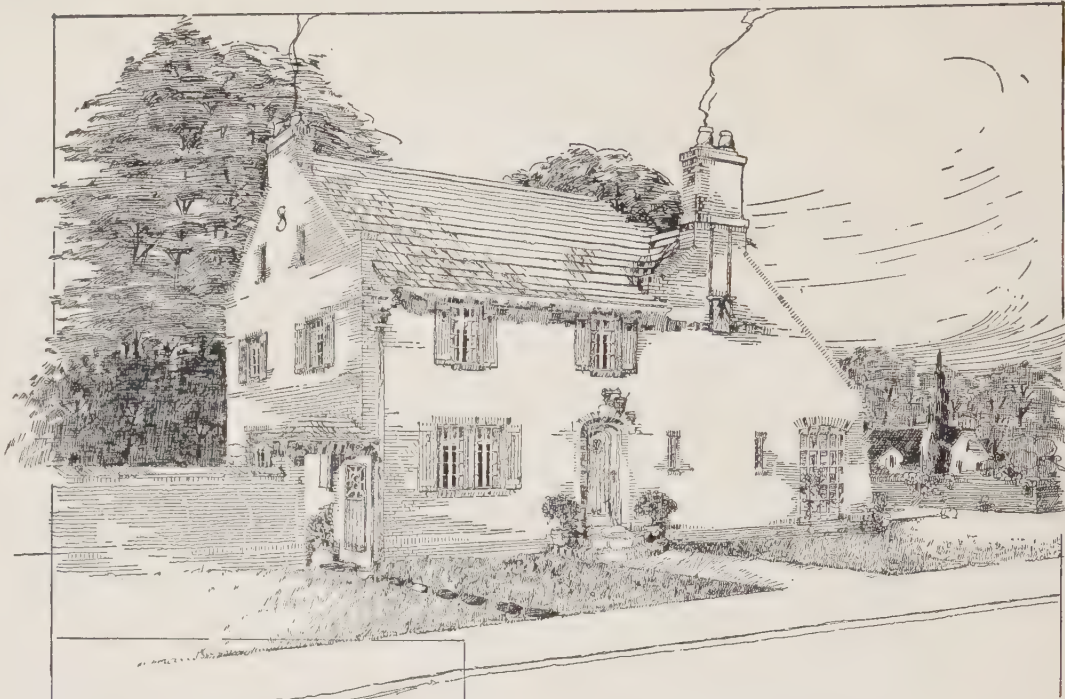


SUBMITTED BY

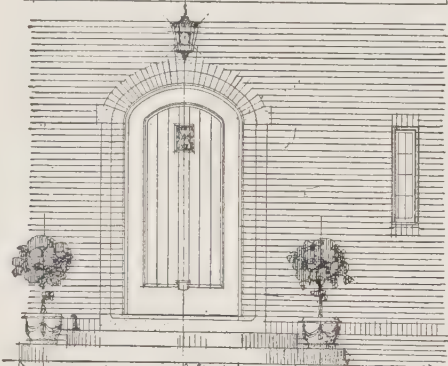
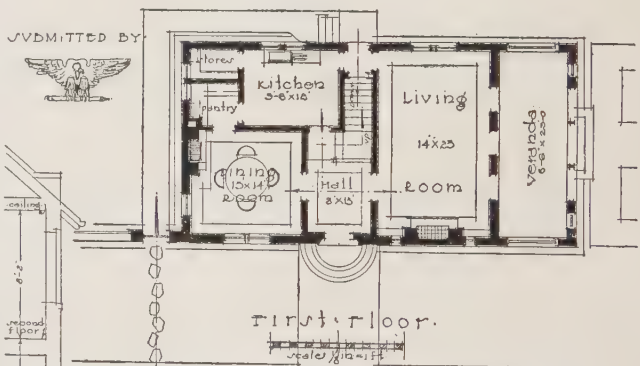
BRICK HOUSE TO COST \$7,500 ~
FACED WITH HY-TEX BRICK

DESIGN BY BAYARD TURNBULL
328 North Charles Street, Baltimore, Md.

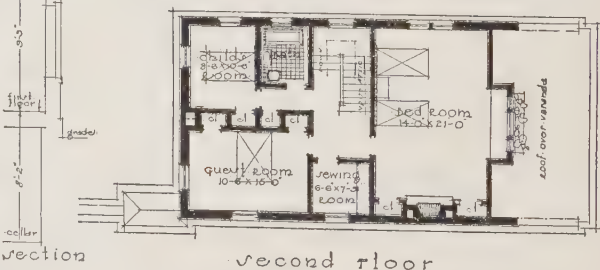
The Hy-tex House



CVBAGE (NOWE ONLY) 39'X25'X32'=32644'^{cu ft}
 " VERANDA 25'X10'X14'-4= 833 "
 " TOTAL 33474 "
 33474 cu ft @ 22¢ A CVBIT FOOT = \$7364.00
 EXCAVATION = \$150.00 PLUMBING = 350.00
 FOUNDATION = 450.00 ELEC WIRE = 150.00
 MASONRY = 3500.00 ALLOWANCE = 200.00
 CARPENTRY = 2500.00 MUNCILL = 200.00
 HEATING = 200.00 TOTAL = \$7500.00

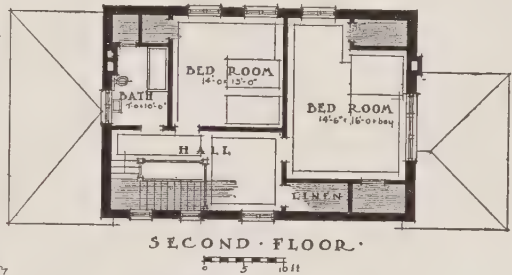
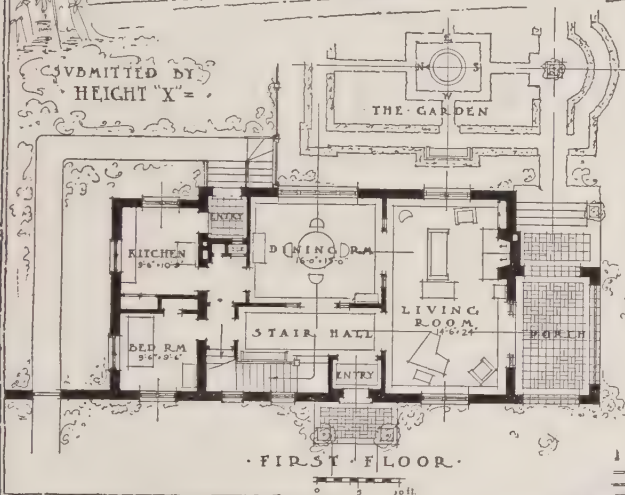


Range of Bokhara bricks to be used. Bonded every four courses.
 one half inch scale detail of front entrance.



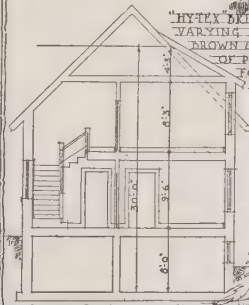
BRICKBUILDER COMPETITION A BRICK HOUSE TO COST \$7,500

DESIGN BY RALPH T. WALKER
 1104 Franklin Street, Melrose Highlands, Mass.

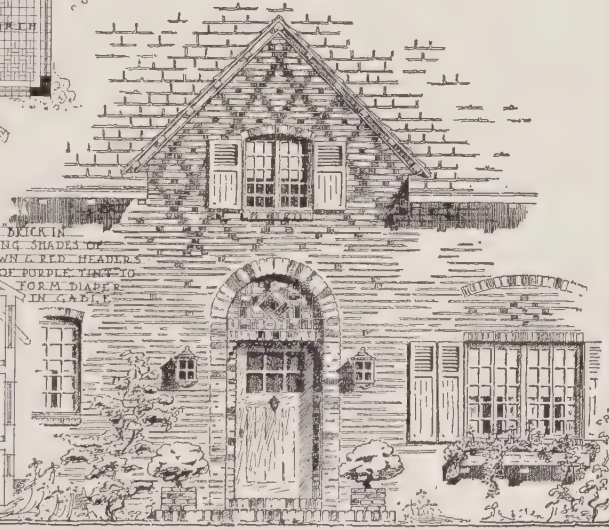


CUBAGE	
MAIN PORTION 381.26:30 =	500.50
SERVICE WING 25.10:121 =	32.81
PORCH 17.10:125 =	5.58
TERRACES & STEPS	1.25
TOTAL	539.94
AT 22¢ COST \$	118.74

ITEMS	
EXCAVATING	\$ 9.50
CONCRETE & CEMENT	4.50
BRICK	14.80
SHEET METAL	9.50
SLATE	3.90
CARPENTRY	15.80
MILL & STAIRS	10.15
PLASTER	5.00
PAINT STAIN & GLAZING	4.50
HARDWARE & FIXTURES	1.80
PLUMBING	5.50
WIRING	1.00
MISCELLANEOUS	1.00
COMMISSION 10%	6.79.50
TOTAL COST	\$7474.50

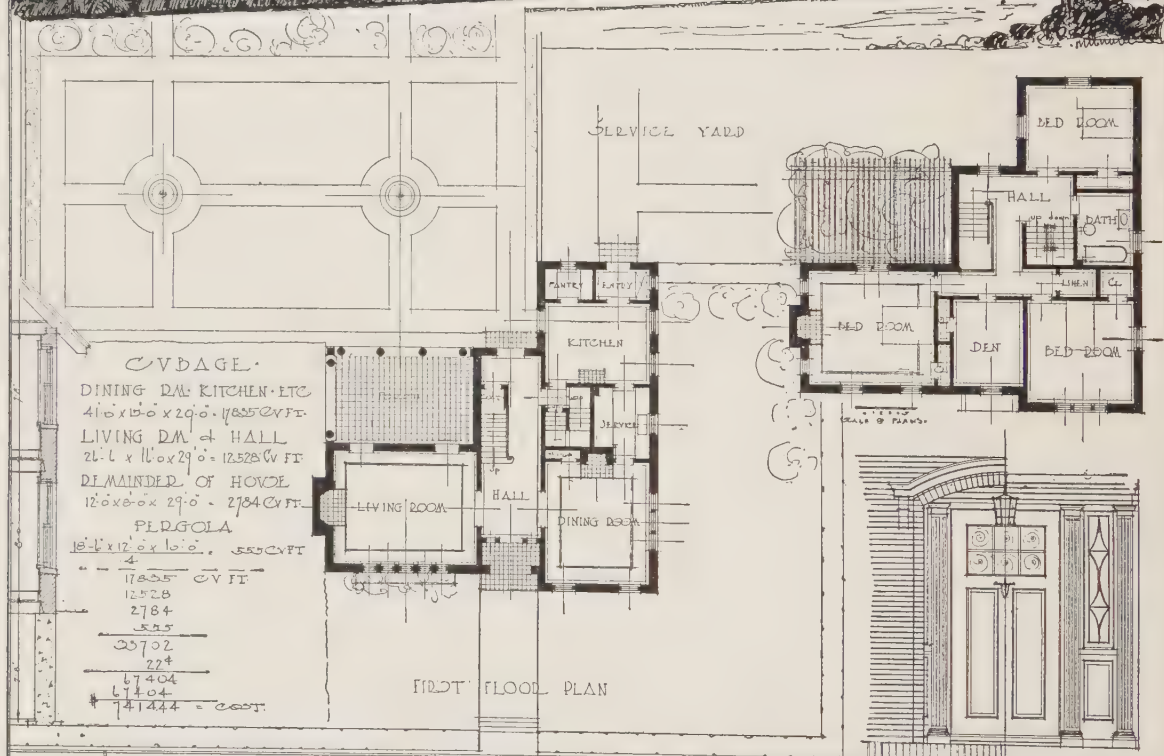


"HY-TEX" BRICK IN
VARYING SHADES OF
BROWN & RED HEADERS
TOP PORTICE PARTS
FORM DIAPHR
IN GABLE



A HY-TEX HOUSE TO COST \$7500.00

The Hy-tex House

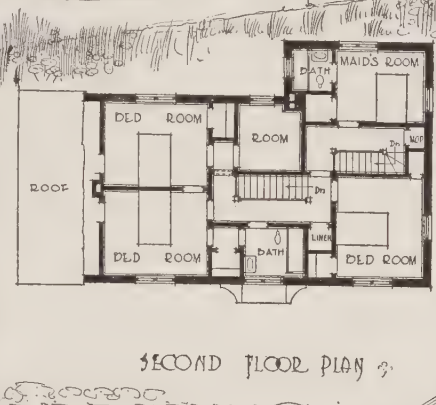
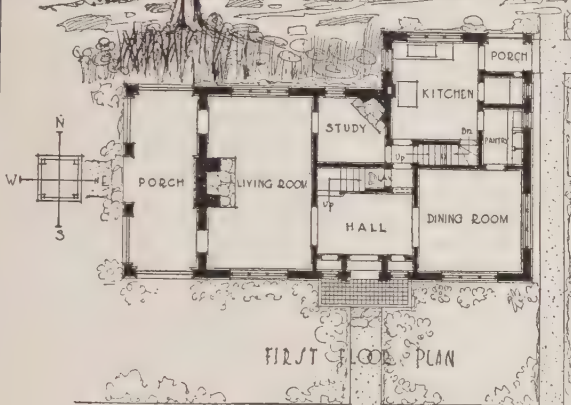


3VB-
 MITTED
 BY

BRICKBUILDER COMPETITION
 FOR A
 7500 DOLLAR BRICK HOUSE

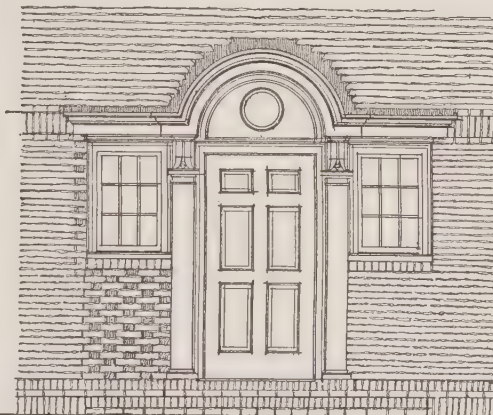
HACK

DESIGN BY JOSEPH G. MCGANN
 111 Devonshire Street, Boston, Mass.

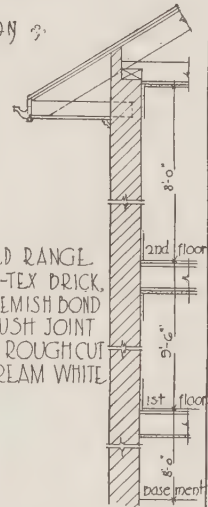


CUDICAL CONTENTS

MAIN PORTION
 23'-6" x 42'-0" x 30'-0" = 29610
 KITCHEN PORTION
 7'-0" x 18'-6" x 30'-0" = 3885
 LIVING ROOM PORCH
 23'-6" x 9'-0" x 10'-0" [25'] = 529
 TOTAL CUDIC FEET 34,024
 AT 22 CENTS A
 CUDIC FOOT
 EQUALS \$ 7486.



RED RANGE
 HY-TEX BRICK
 FLEMISH BOND
 FLUSH JOINT
 1/2 ROUGH CUT
 CREAM WHITE



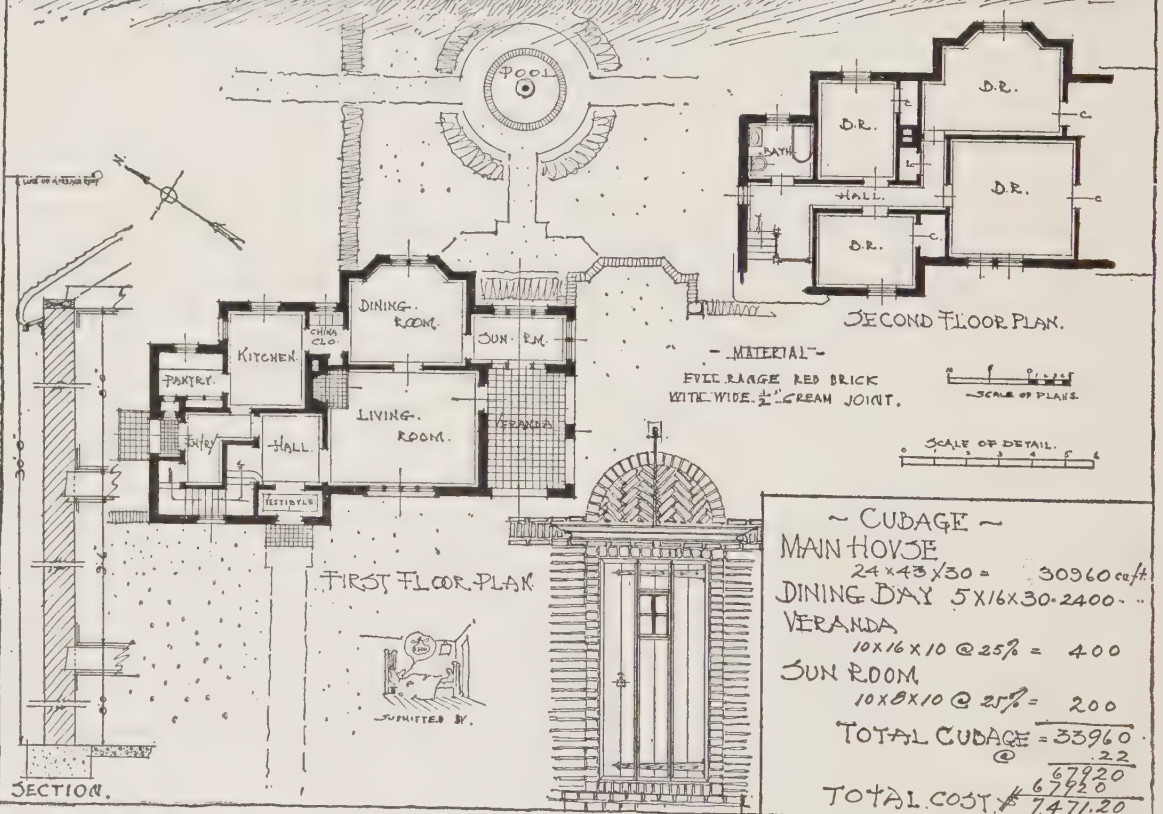
SCALE OF PLANS



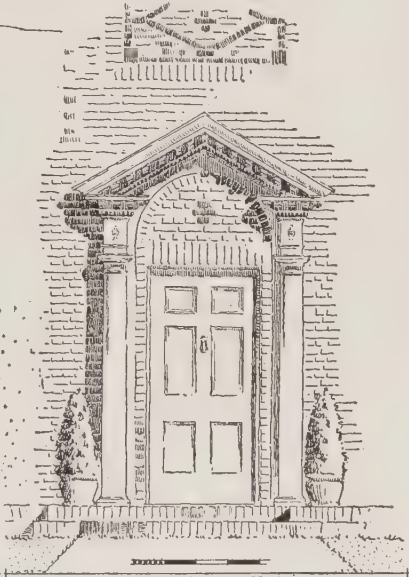
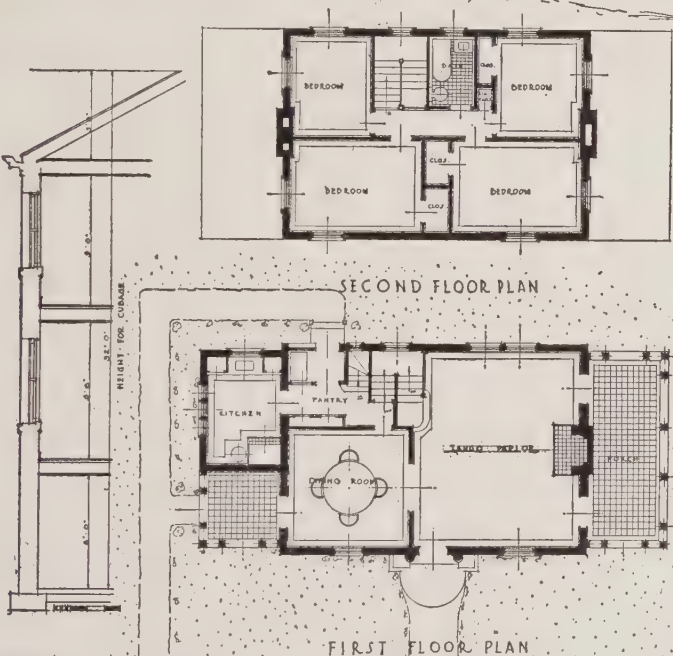
COMPETITION FOR A BRICK
 HOUSE TO COST \$7,500

SUBMITTED - DY.

BRICKBUILDER COMPETITION FOR A \$7500⁰⁰ HY-TEX BRICK HOUSE



DESIGN BY CLARENCE B. HALL
 93 Federal Street, Boston, Mass.



CUBAGE			
MAIN HOUSE	58 x 26 x 32 =	31616 CU. FT. X 22 CTS.	695.552
MAIN PORCH	(25 x 10 x 10) ÷ 4 =	650 CU. FT. X 22 CTS.	137.50
DINING PORCH	(10 x 10 x 10) ÷ 4 =	250 CU. FT. X 22 CTS.	55.00
KITCHEN EXT.	10 x 15 x 10 =	1500 CU. FT. X 22 CTS.	330.00
TOTAL COST			7478.02

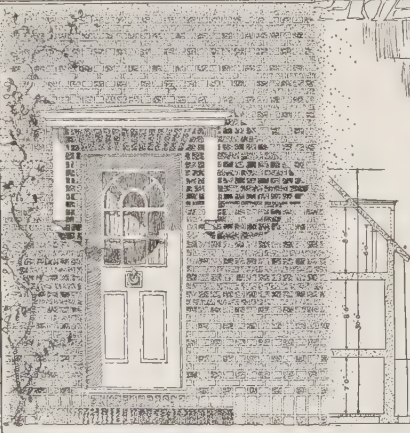
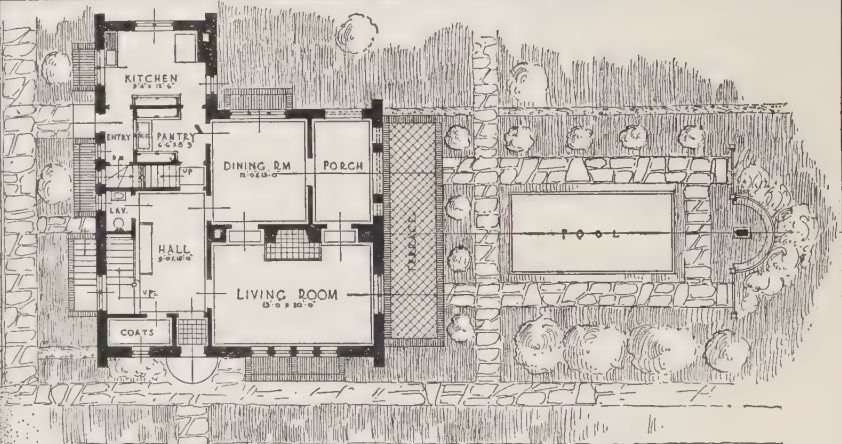


\$7500 HY-TEX BRICK HOUSE

The Hy-tex House



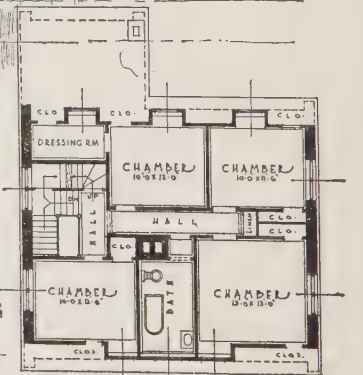
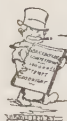
CVBAGE & COSTS
MAIN BODY OF HOUSE 35-8' X 30-6' X
30-0' IN HEIGHT = 32640 CV. FEET
KITCHEN WING 15-4' X 11-0' X 14-0' IN
HEIGHT = 2366 CV. FT. TERRACE
28-6' X 7-6' X 3-0' ÷ 4 = 153 CV. FT. SUBTRACT
ING 1600 CV. FT. FOR VNEXCAVATED
PORTION VNDER LIVING ROOM
VESTIBULE & COAT CLOS. EQVALS
33559 CV. FT. X 22 = 7383⁰⁰ COST
EXCAVATION 150 HEATING 650 PLASTERING 400
MASONRY 2700 PLYMBING 550 SHEET METAL 150
LUMBER 900 WIRING 100 LIGHT FIXTURES 150
CARPENTRY 550 R. HARDW. 100 GAS PIPING 100
MILL WORK 500 F. HARDW. 150 PAINTING ETC 250
+ 100 ALLOWANCE



· COMPETITION ·
· FOR A ·
HYTEX · BRICK · HOUSE ·
· GIVEN BY ·
· THE BRICKBUILDER ·

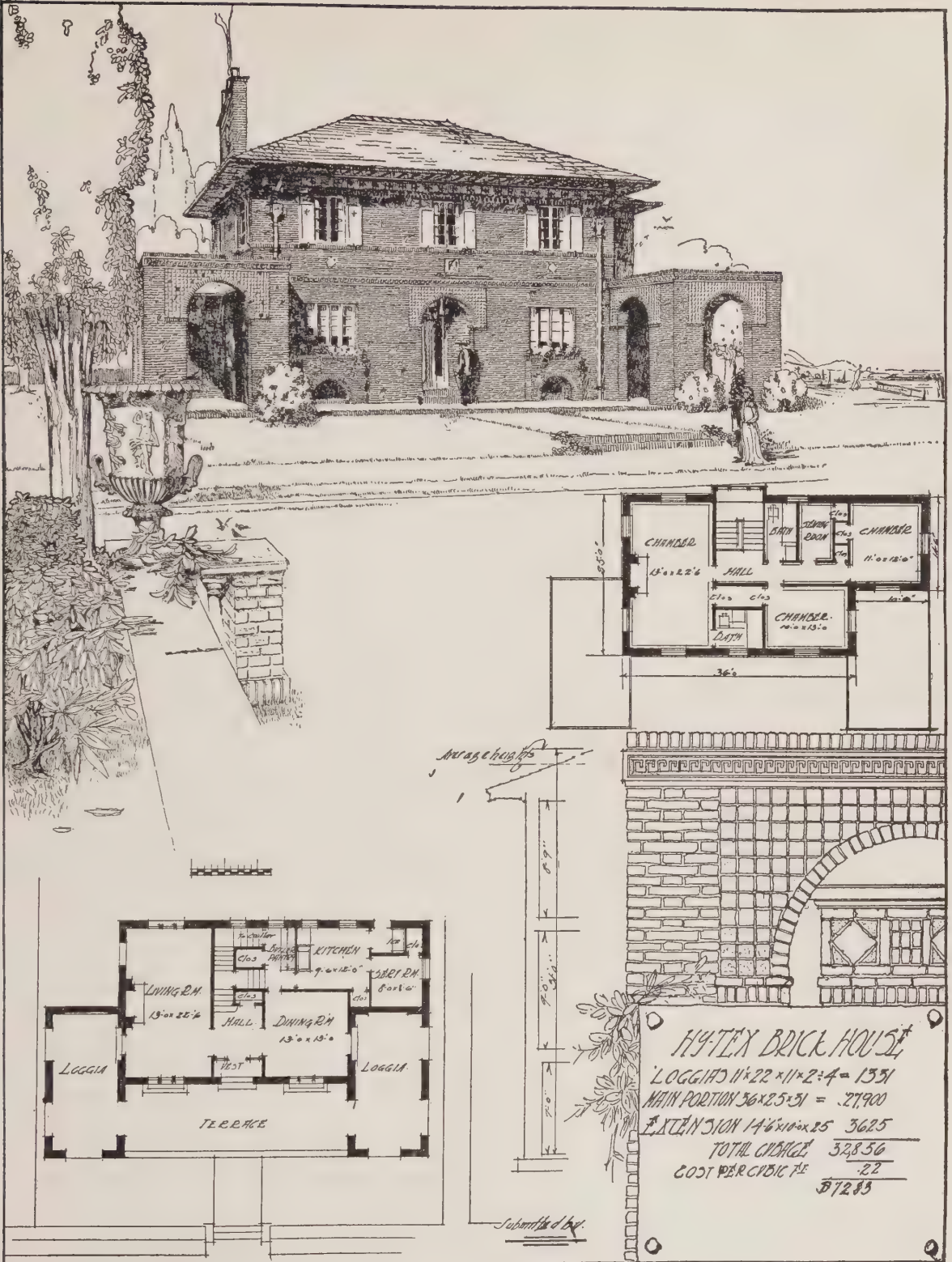
SCALE FOR PLANS

SCALE FOR DETAIL
BRICK TO BE LIGHT RED WITH ALTERNATE
HEADERS OF THE DARKER. SHADES SELECTED
AT RANDOM. STRONGEST COLORS TO BE USED
IN GABLE ENDS. ROOF TO BE SILVER GRAY.
WOODWORK WHITE. WALKS OF LOCAL FIELD STONE.

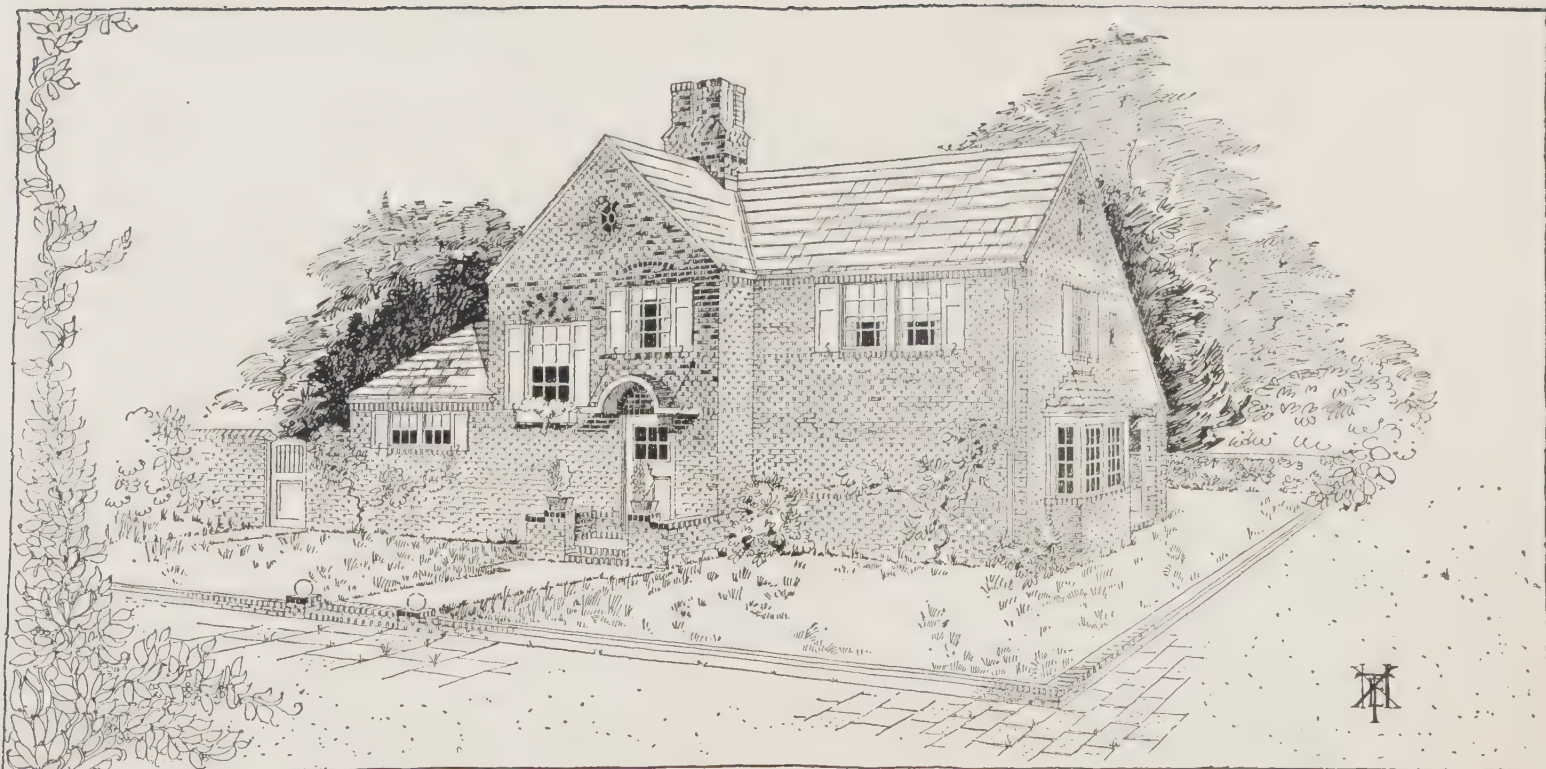


· SECOND FLOOR PLAN ·

DESIGN BY LEWIS P. MACKENZIE AND WARNER A. EBBETS
5750 Pine Street, Philadelphia, Pa.

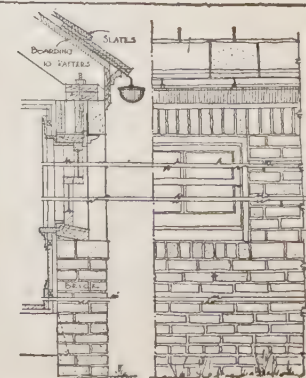
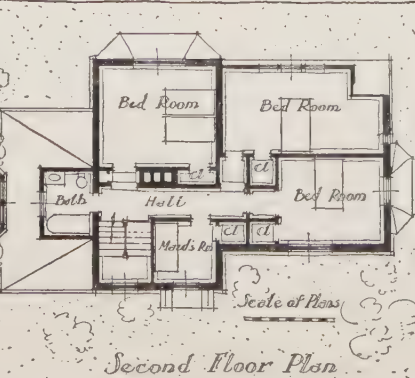
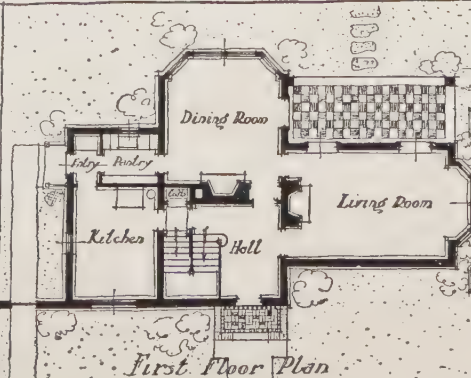


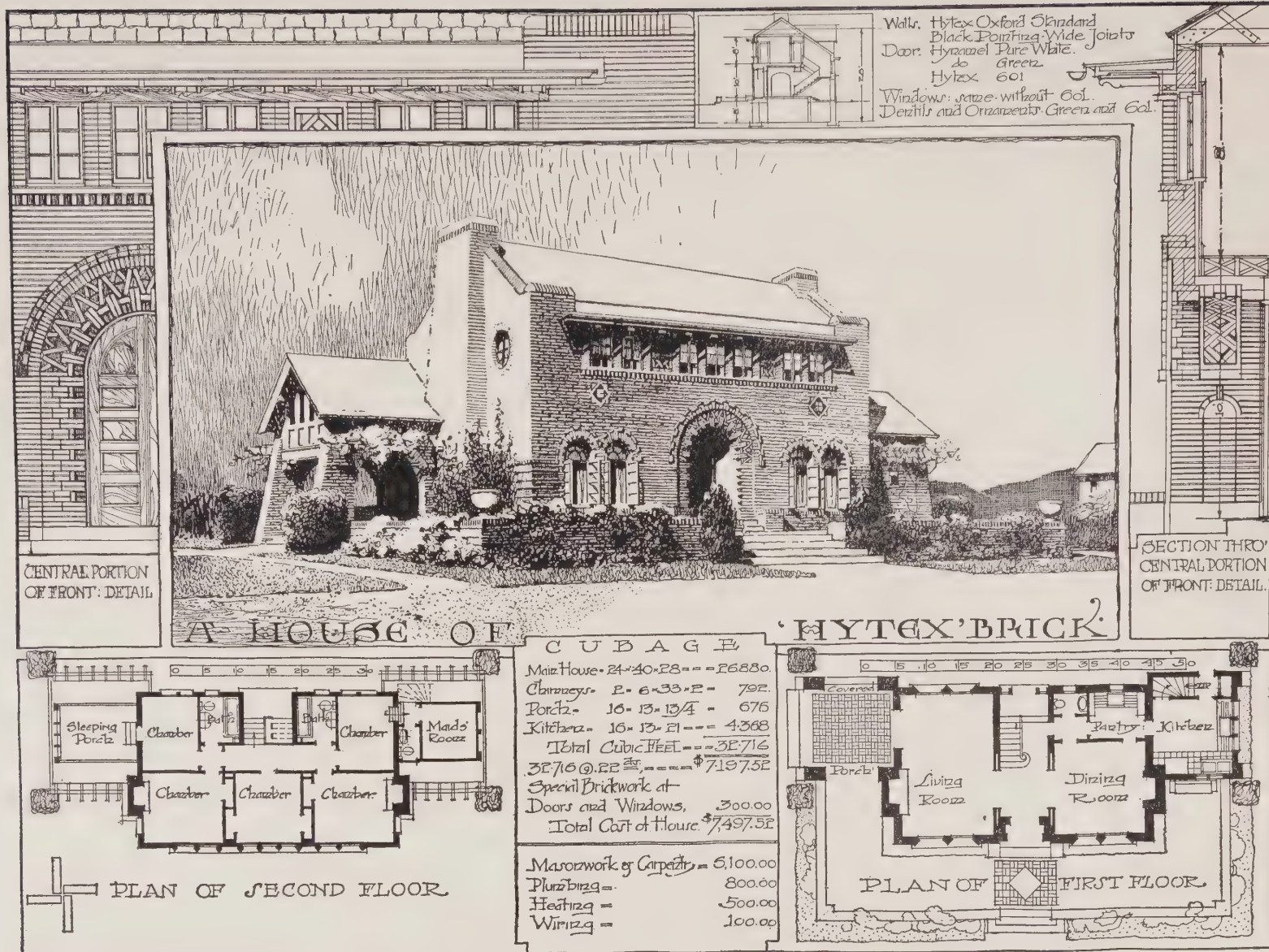
DESIGN BY EMIL H. KLEEMAN
23 North 22d Street, Irvington, N. J.

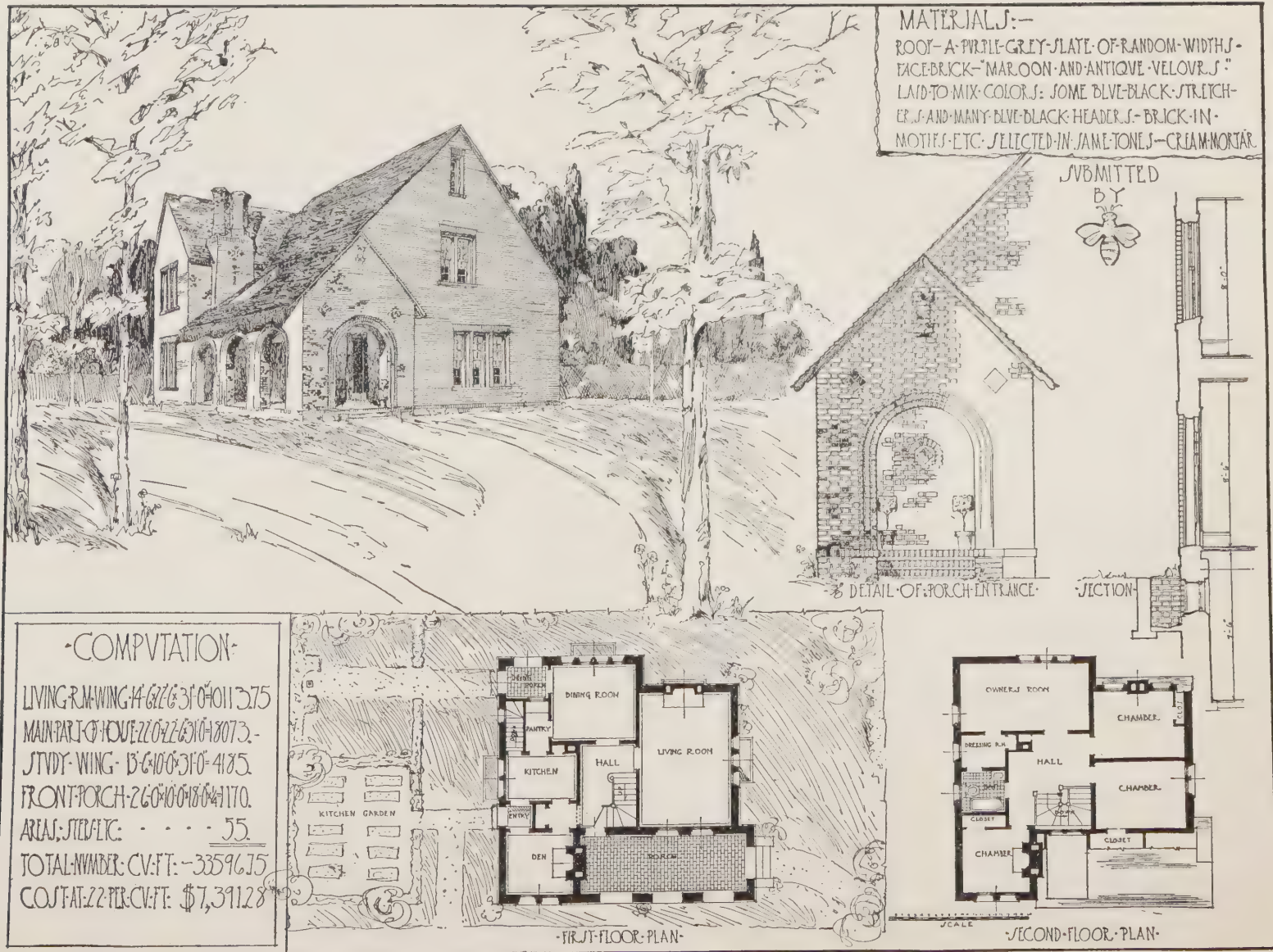


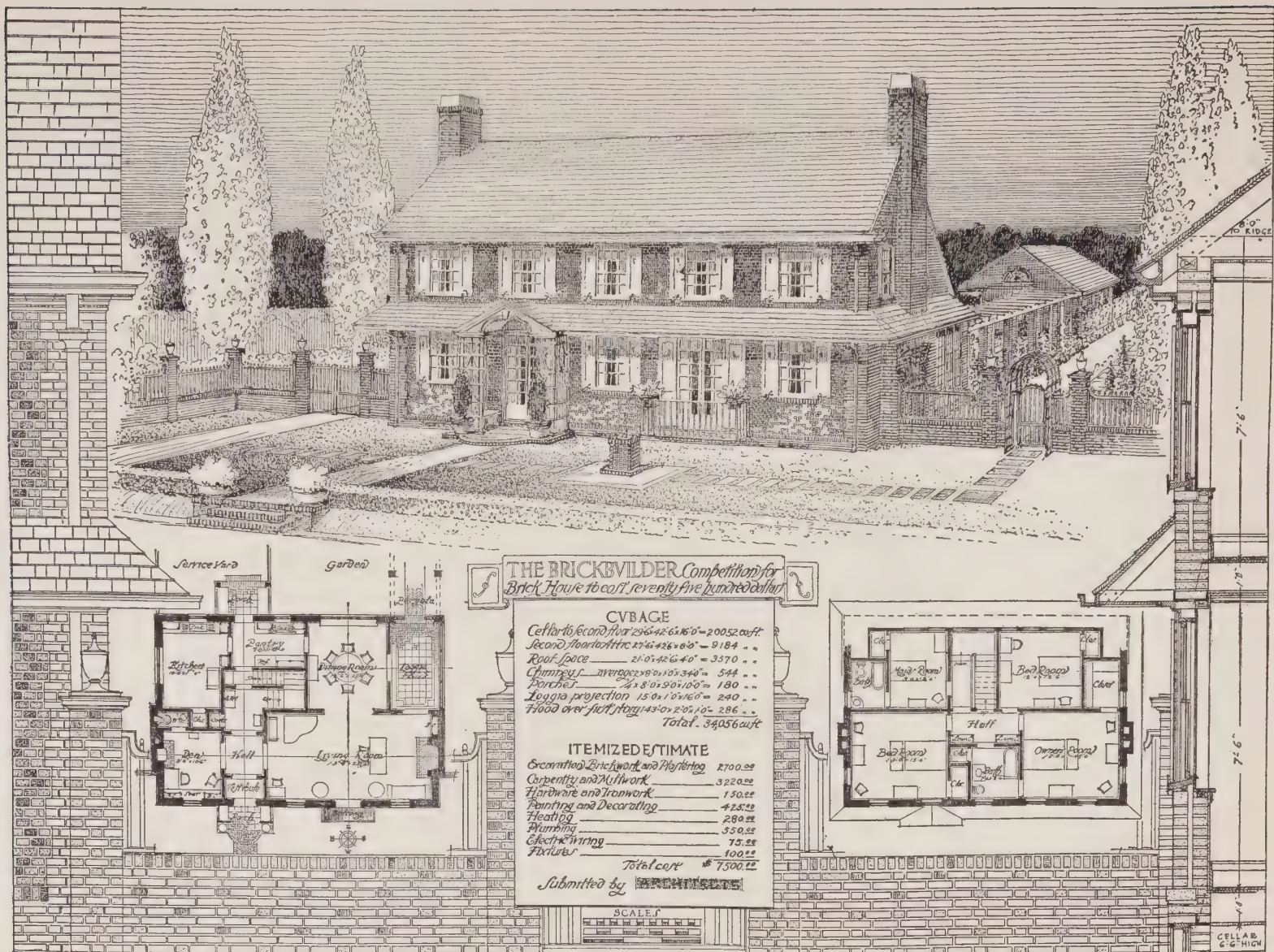
Cubage

*This cubage is taken
in three parts + +
Living Rm portion - 5600
Bed Rooms over L.R. - 5000
Centre D.R. Portion - 15800
Kitchen Wing - 5600
Porches - 520
Making a total of 33120
cubic ft*

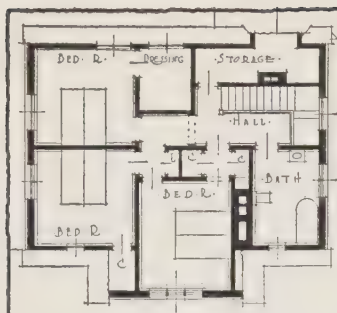








The Hy-tex House



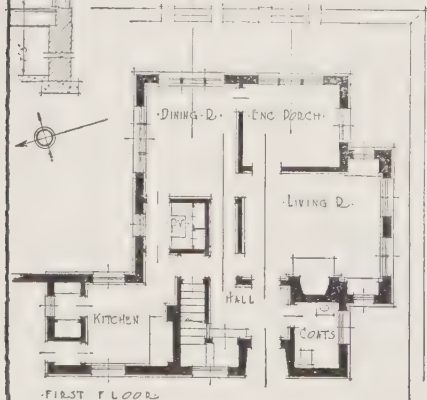
SECOND FLOOR

SCALE OF DRAWINGS
DETAILS 0 1 2 3 4 5 6 PLANS 0 1 2 3 4 5 6

BRICKBUILDER COMPETITION
FOR A HYTEX BRICK HOUSE
MAIN GABLE = $26\frac{3}{4} \times 37\frac{1}{2} \times 30$ = + 29674
FRONT = $5\frac{1}{2} \times 19 \times 27$ = + 2835
REAR = $11 \times 12 \times 21$ = + 2772
UNEXCAVATED PART = $11 \times 13 \times 5\frac{1}{2} \times 2$ = - 1572
TOTAL = 33709
COST = 33709 X 22 = \$7416
SUBMITTED BY S. W. PERSPECTIVE.



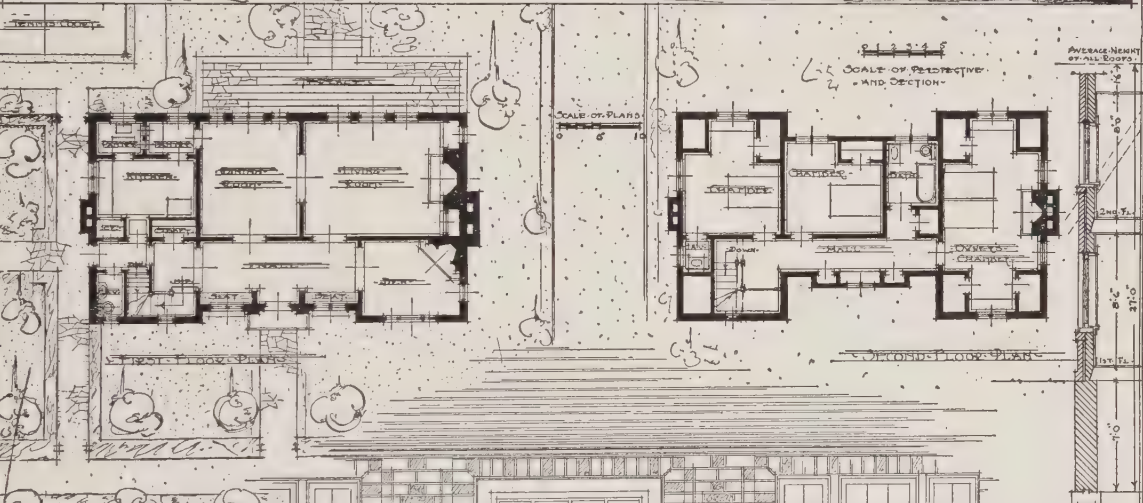
S W PERSPECTIVE



FIRST FLOOR



DESIGN BY H. W. PEEBLES
Building Department, City Hall, Seattle, Wash.

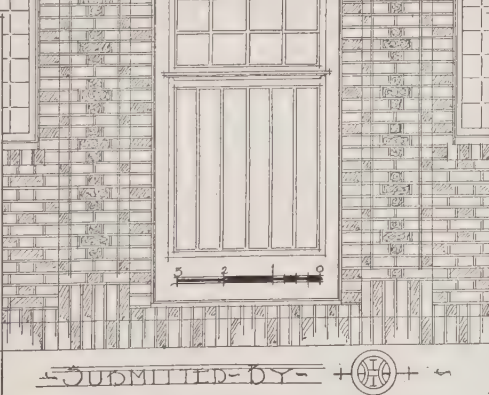


CRUDICAL-CONTENTS

FLOOR AREA: 41x26=1222 S.F.
 CUBAGE: 1222x21=25662 C.F.
 TERRACE: 24x10=240 S.F.
 TOTAL: 33,889 S.F. 224=1089.56

ITEMS OF COST

EXCAVATION	\$ 200
MASONRY & PLASTERING	2200
CARPENTRY	3400
PLUMBING & HEATING	925
PAINTING	200
LIGHTING & FIXTURES	300
HARDWARE	150
MISCELLANEOUS	125
TOTAL	\$7500



THE BRICKBUILDER'S COMPETITION

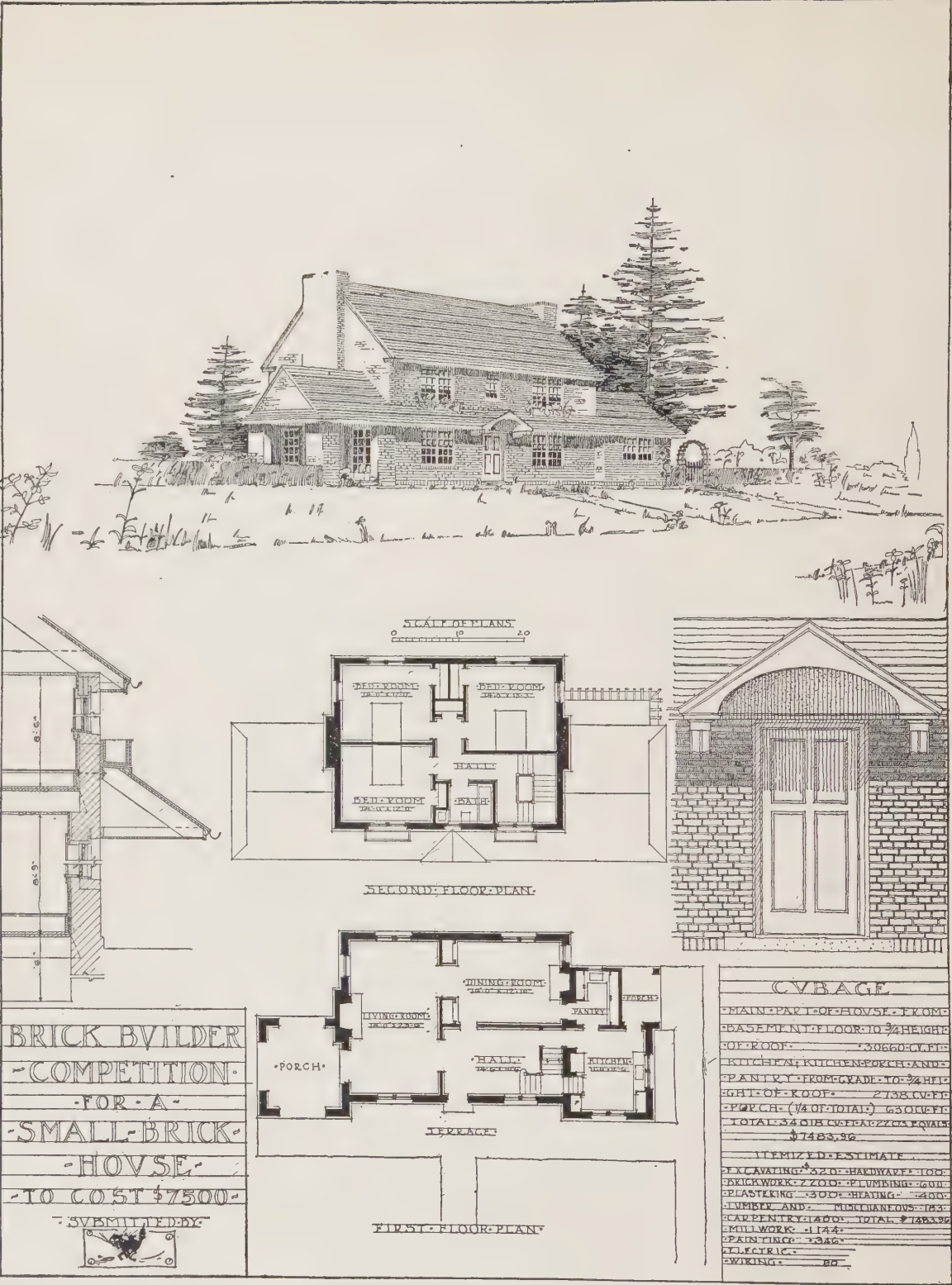
A \$1500 BRICK HOUSE

THE COLOR SCHEME

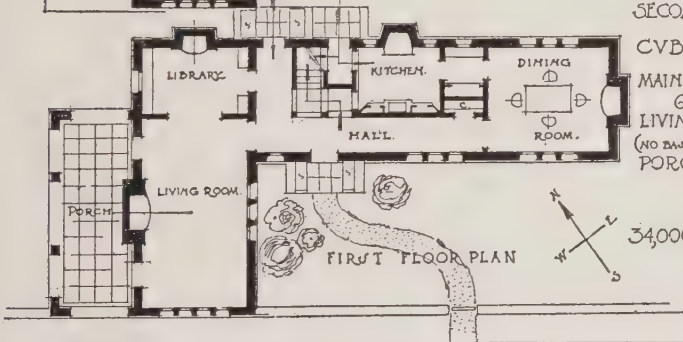
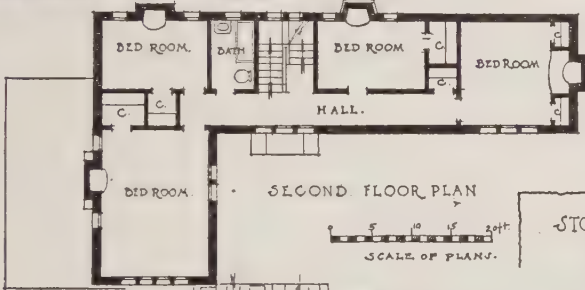
FOR BRICK: RED & TONING INTERIOR
 TO BE: GON METAL
 TO BE: 60% DARK OAK BROWN
 40% GON METAL
 TO BE: 20% GOLDEN MOTTLED MATTE
 80% MEDIUM BROWN. THE MAIN
 PORTION OF HOUSE TO BE FACED
 WITH FLEMISH DOUBLE DUTCHER
 BOND OF MIXED BROWN SHADES

SUBMITTED BY + (H) +

The Hy-tex House



DESIGN BY F. G. BRUTON
Forbes and Halket Streets, Pittsburg, Pa.



STORY HEIGHTS (FLOOR TO FLOOR)
 BASEMENT. — 8'-0"
 FIRST. — 9'-4"
 SECOND (CLEAR) 8'-0"

CUBAGE,
 MAIN BUILDING,
 $60' \times 15' \times 30' = 27,000$ cu ft.
 LIVING RM. WING,
 (NO BASEMENT) $19' \times 15' \times 22' = 6,270$
 PORCH,
 $25' \times 10' \times 12' \div 4 = 750$
 CU FT.
 $34,020$
 $34,000$ CU FT. AT 22¢ = \$7,484.00



COMPETITION FOR A BRICK HOUSE TO
 COST SEVENTY FIVE HUNDRED DOLLARS.

DESIGN BY NORMAN BIARD BAKER
 16 Ingram Street, Forest Hills Gardens, L. I., N. Y.

The Hy-tex House



THE BRICKBUILDER COMPETITION FOR A HOUSE TO BE FACED WITH HYTEX BRICK FOR SEVEN THOUSAND FIVE HUNDRED DOLLARS...

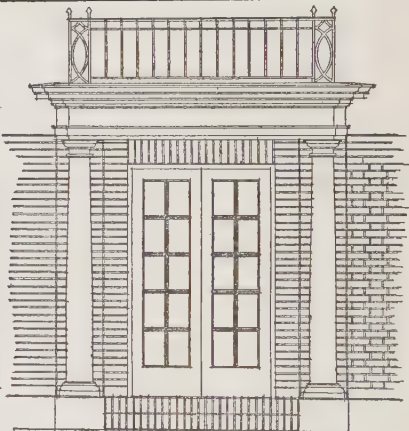
SUBMITTED BY ZERO

THE CUBAGE

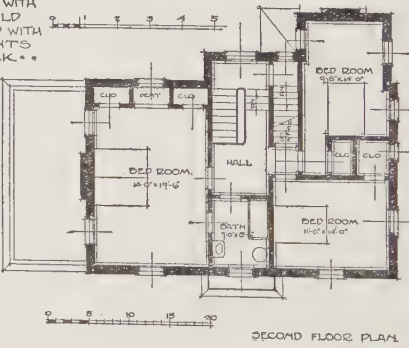
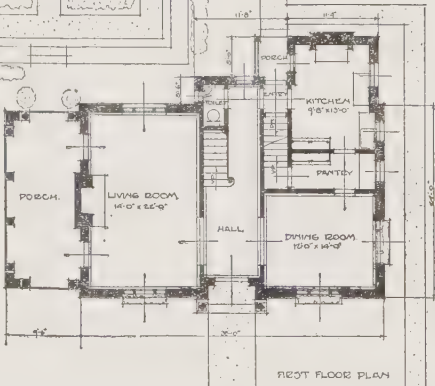
MAIN PART OF HOUSE	
64' x 28' x 2'-8" + 35' x 23' x 2'-8" + 14' x 5' x 2'-8" + 26' x 7' x 3'-3"	1080
LESS UNEXCAVATED PORTION UNITS	33187.43
LIVING ROOM 14' x 18' x 3"	796.8
PORCHES	33984.03
22' x 9' x 10" + 5' x 4' x 10" + 2' x 8' x 10" + 4' x 4' x 10"	
TOTAL COST 33984.03 @ 22¢	7476.49

ITEMS OF COST

EXCAVATION	175.00
BRICKWORK	2200.00
PLASTERING	300.00
LUMBER AND CARPENTER WORK	2500.00
PAINTING	225.00
HARDWARE	100.00
ELECTRIC WIRING	75.00
PLUMBING	500.00
HEATING	450.00
MISCELLANEOUS	975.00
	7500.00



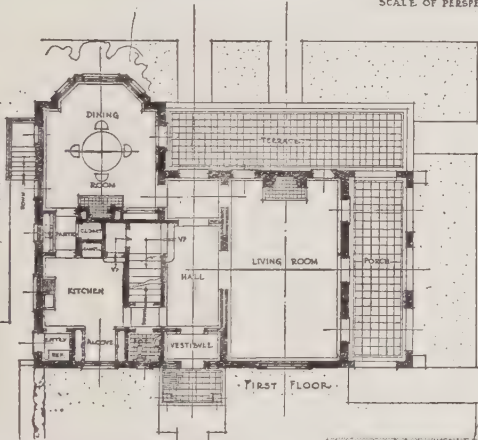
BRICK TO BE BROWN WITH RED SPOT SAND MOUND Laid FLEMISH BOND WITH BUFF MORTAR. JOINTS CUT FLUSH. 1/2" THICK.



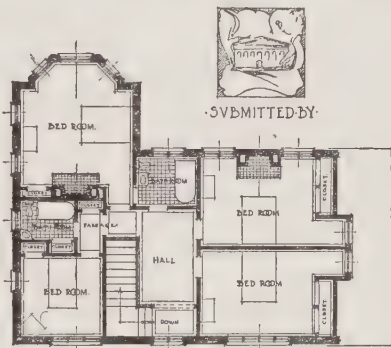
DESIGN BY H. PHILLIP BARTLETT
824 North Tacoma Avenue, Indianapolis, Ind.



SCALE OF PERSPECTIVE

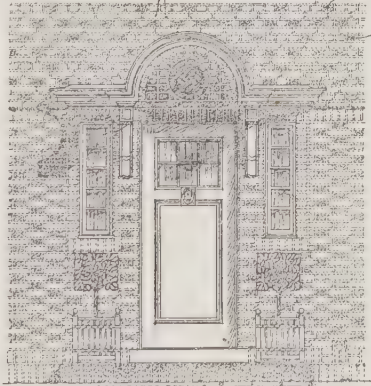


FIRST FLOOR

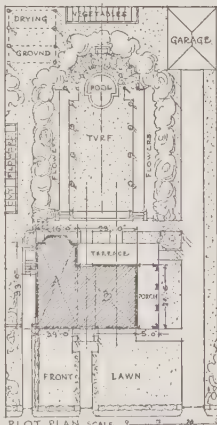


SECOND FLOOR

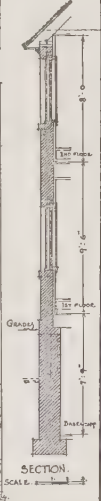
COLOR SCHEME - HOUSE TO BE FACED WITH RED BOMBARAS WITH STEEL BLACK HEADERS



SCALE FOR DETAILS



PLOT PLAN SCALE



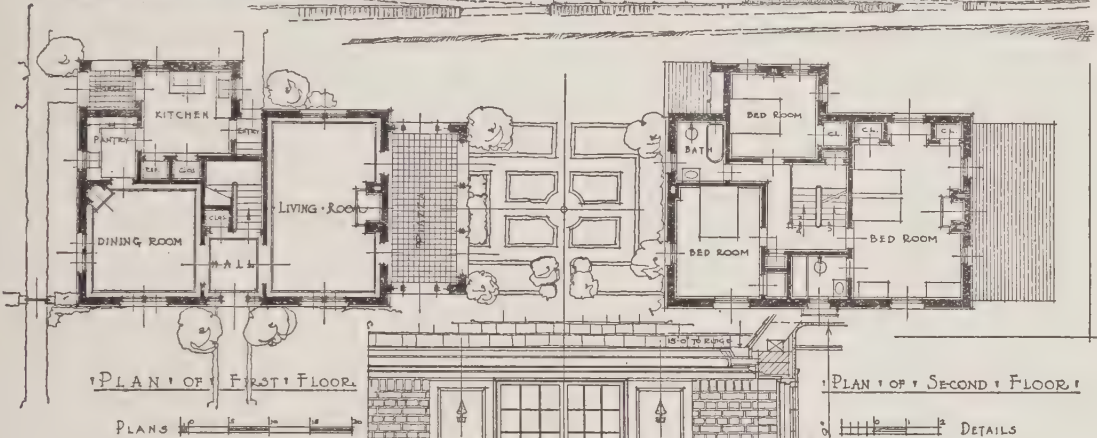
SECTION SCALE

CVBAGE	
SEE PLOT PLAN	
NOTE - BASEMENT ONLY	
VNDER SECTION MARKED	
A' 16'x33'x3' HIGH = 16368' CUBE	
SECTION MARKED	
B' 23'x24.5'x25' HIGH = 14088' "	
PORCH 8'x24.5'x12' = 2352' "	
DAY WINDOW 3'x10'20' = 600' "	
MISCELLANEOUS = 682' "	
TOTAL - 34090' "	
34090 AT \$22 CV. FT. \$7500.	

COMPETITION FOR A HY-TEX BRICK HOUSE TO COST \$7,500.

[illegible]

36



CUBAGE.

MAIN PART	24'x38'x33.5'	= 30552
REAR WING	6'x13'x20'	= 2262
PIAZZA	10'x21'x14'÷4	= 735
PORCH	6'x7'x16'÷4	= 168
TOTAL CUBIC FEET		33717
AT 22¢ PER CUBIC FT.		\$7417.74

ITEMIZED COST.

EXCAVATION	\$ 200.00
MASON	2,550.00
CARPENTER	2,637.00
HARDWARE	185.00
PAINTING	350.00
PLUMBING & METAL WORK	900.00
HOT AIR HEATING	425.00
ELECTRIC WORK	190.00
TOTAL	\$7,417.00

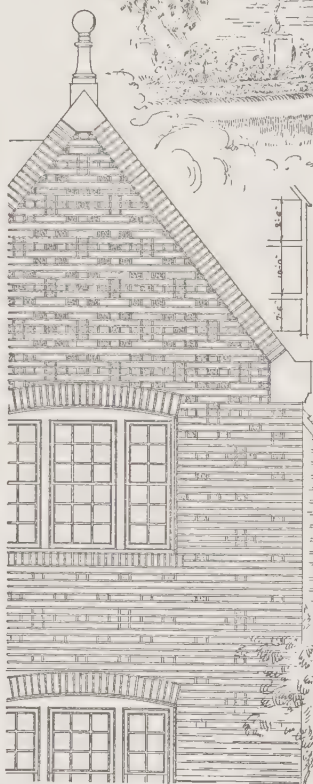
BRICKBUILDER
COMPETITION
A BRICK HOUSE
TO COST \$7500.
WALLS FACED
WITH HY-TEX
BRICK

BRICK TO BE BOKHARA
IN FULL RUN OF SHADES
LAID WITH 3/8" FLUSH JOINTS



The Hy-tex House

SUBMITTED BY

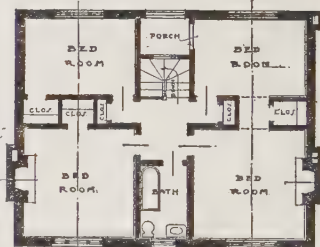


BRICKBUILDER COMPETITION
FOR A SEVEN THOUSAND
FIVE HUNDRED DOLLAR
BRICK HOUSE
SCALE
1/8" = 1'-0"

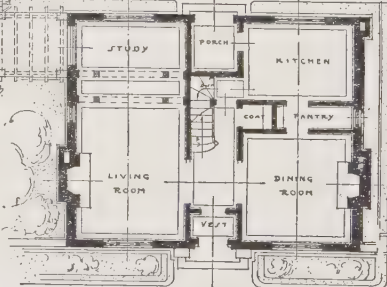
± COST ITEM ±

EXCAVATION	\$200.00
BRICKWORK	2850.00
PLASTERING	400.00
WOODWORK	1275.00
PAINTING	200.00
PLUMBING	325.00
ELECTRIC	75.00
HARDWARE	125.00
HEATING	350.00
ROOFING	800.00
MISCELLANEOUS	1000.00
TOTAL	7500.00

CUBAGE $37 \times 29 \frac{1}{2} \times 31 = 340.00$
22¢ PER CU. FT. = 74.80
TOTAL \$7500.00



SECOND FLOOR



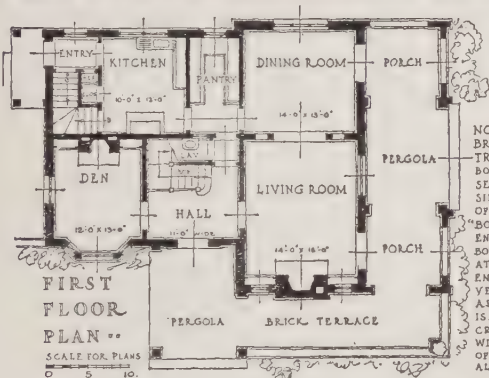
FIRST FLOOR



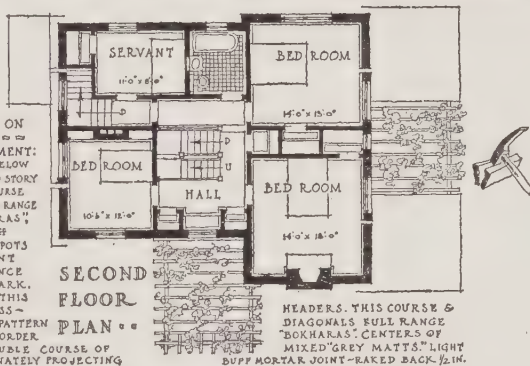
DESIGN BY EARL FREDERICK BANKES
548 Riverside Drive, New York, N. Y.

VER. 10. 1934

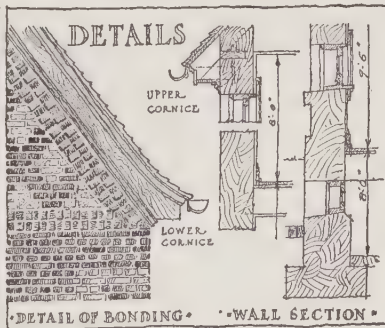
A HY-TEX HOME

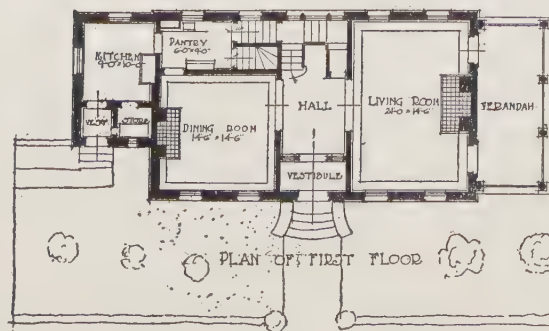


NOTES ON
BRICK TREATMENT:
BODY BELOW
SECOND STORY
SILL COURSE
OF FULL RANGE
"BOKHARAS",
ENGLISH
BOND. SPOTS
AT FRONT
ENTRANCE
VERY DARK.
ABOVE THIS
IS A CRISS-
CROSS PATTERN
WITH BORDER
OF A DOUBLE COURSE OF
ALTERNATELY PROJECTING



COST DATA		
MATERIALS & LABOR	CUBIC CONTENTS	
EXCAVATING 150	BASEMENT UNDER	
BRICK & MASONRY 1800	25'x27' PORTION 4968	
MILL WORK 1430	EXCAVATED SPACE	
PLUMBING 610	UNDER 16'x21'	
CARPENTRY & LUMBER 1700	PORTION 1984	
HEATING 450	FIRST STORY 10608	
PLASTERING 590	SECOND STORY 8936	
ELECTRIC LIGHTING 200	ATTIC & ROOFS 5680	
HARDWARE & METAL 350	PORCHES & TERRACE 1492	
PAINTING 300	TOTAL CUBAGE 33666	
MISCELLANEOUS 220	PER CUBIC FT .22	
COST COMPLETE \$7,500	TOTAL COST \$7417.52	





SCHEDULE OF COST

MAIN HOUSE

40'-0" x 23'-0" x 33'-0" = 30360 cbf

KITCHEN WING

16'-0" x 9'-6" x 18'-0" = 2736 cbf

VERANDAH

21'-6" x 9'-0" x 16'-0" = 776 cbf

TOTAL 33872 cbf

33872 cbf @ 22c = \$7451.84

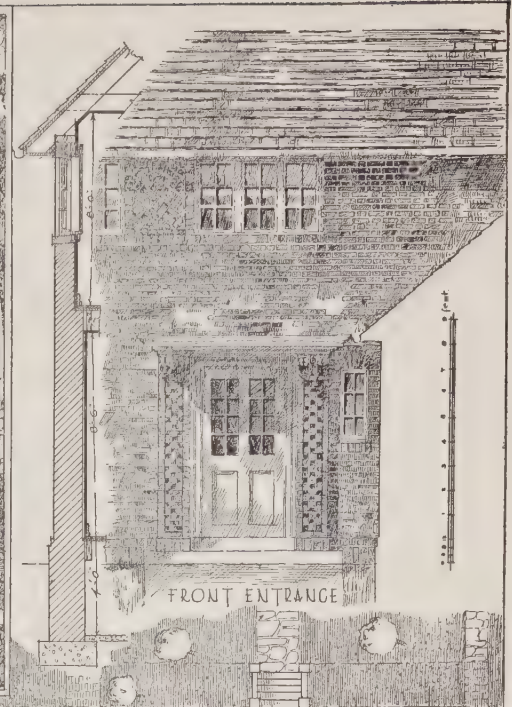
NOTE:

WALLS TO BE LAID UP IN
HY-TEX BRICK & BOND TO BE
DOUBLE STRETCHER FLEMISH
WITH DARKER HEADERS
SUBMITTED BY - HURRY UP -

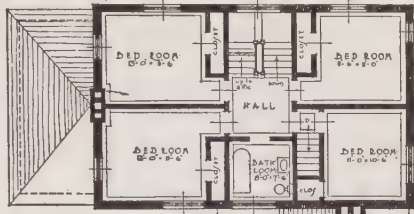


0 10 20 30

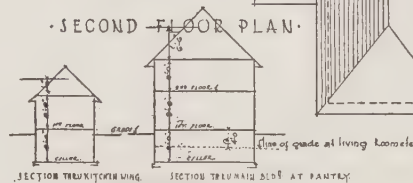
- BRICK BUILDER COMPETITION FOR A \$7500.00 BRICK HOUSE -



COLOR SCHEME—BRICK WORK TO BE A MIXTURE OF REDS
ROOF TO BE BROWNS & FUELL TINTS WITH THE HEADERS
PICKED OUT IN DARK TINTS JOINTS 3/4" THICK
SILVER GRAY IN SHADES



SECOND FLOOR PLAN



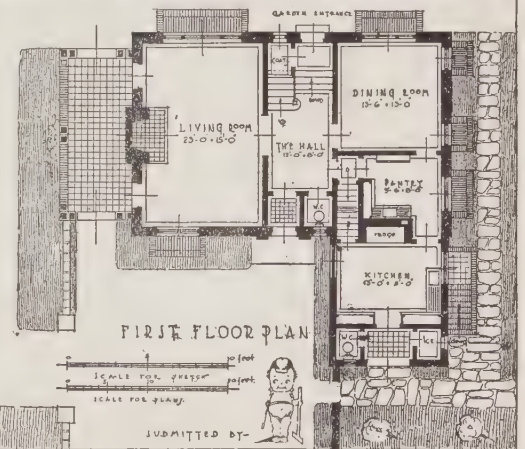
CUBAGE

NOTE—BUILDING UNDER LIVING ROOM & HALL
& DINING ROOM IS EXCAVATED 3'-0" BELOW GRADE
AND GRADE COVERED WITH 5'-0" OF CINDER
CONCRETE—CELLAR TO EXTEND UNDER KITCHEN
WING & PANTRY ONLY
MAIN BUILDING 39'-6" x 25'-6" x 28'-0" = 28,210
EXTRA DEPTH FOR MAIN BUILDING UNDER
PANTRY TO FORM CELLAR 12'-0" x 11'-0" x 4'-0" = 528
KITCHEN WING 16'-0" x 11'-6" x 20'-0" = 4,400
MAIN PORCH 1/2 OF 21'-0" x 19'-0" x 10'-0" = 472
CHIMNEY STACK ON MAIN BUILDING 4'-0" x 14'-0" x 40' = 2,240
ON KITCHEN WING 3'-0" x 4'-0" x 100' = 1,200
TOTAL CF 33,992

COSTS OF VARIOUS WORKS

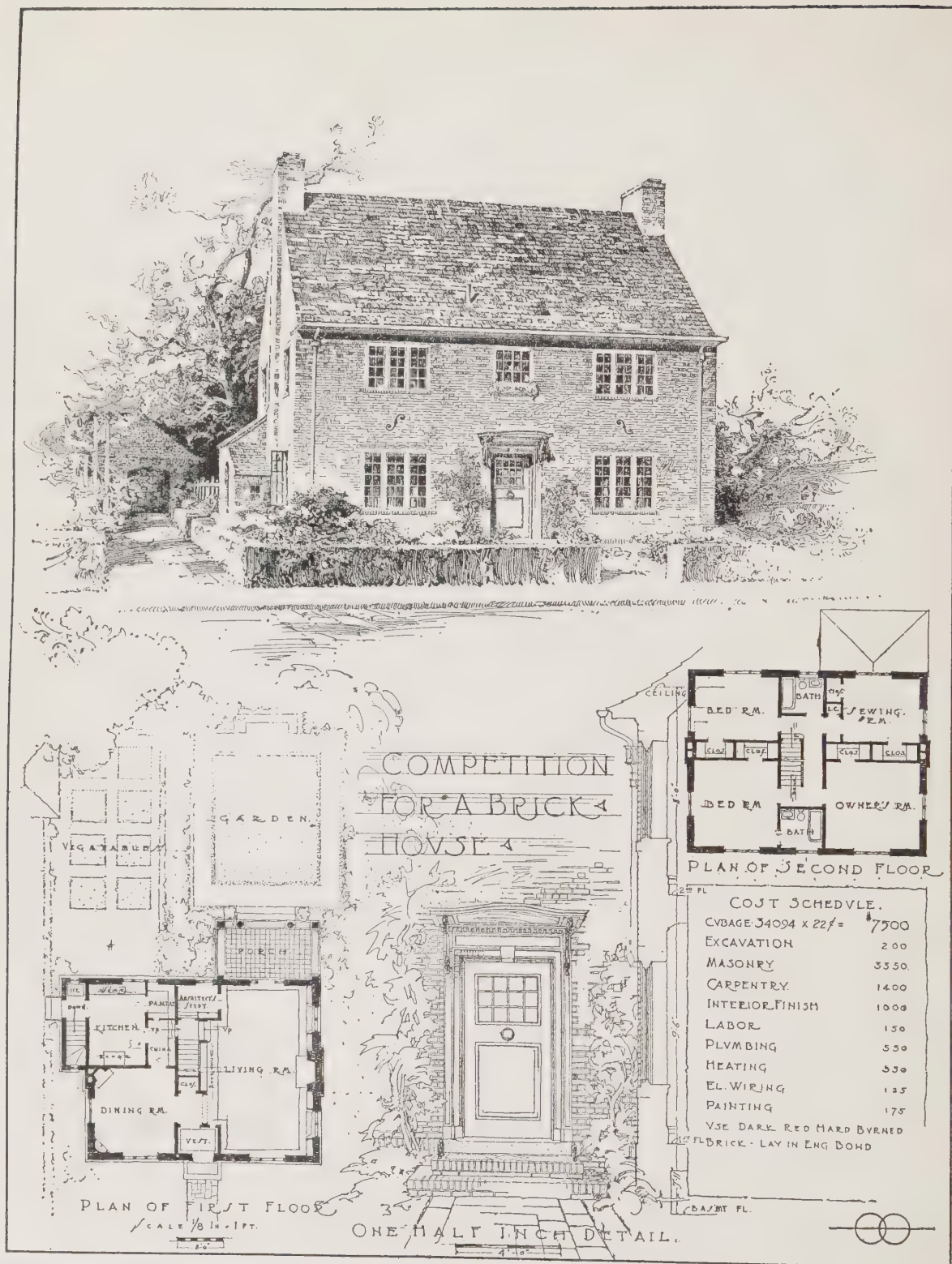
EXCAVATOR WORK 100.00 BRICK WORK 3000.00
LUMBER 900.00 CARPENTRY 600.00 MILLWORK
500.00 HEATING 600.00 PLUMBING 500.00
WIRING 100.00 HARDWARE (ROUGH & FINISHED)
280.00 PLASTER WORK 400.00 SHEET METAL
15.00 LIGHT FIXTURES 150.00 GAS PIPING 100.00
PAINTER WORK 205.00 = 7480.00

COMPETITION FOR A
7500.00 BRICK HOUSE
FEBRUARY THE 10TH 1914

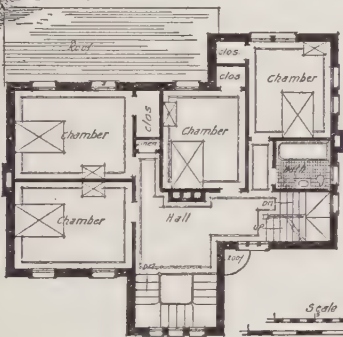


DESIGN BY LEWIS A. MACKENZIE
5750 Pine Street, Philadelphia, Pa.

The Hy-tex House



DESIGN BY A. J. HARPER
 470 Fourth Avenue, New York, N. Y.

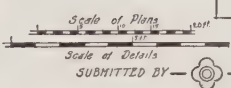


Second Floor Plan

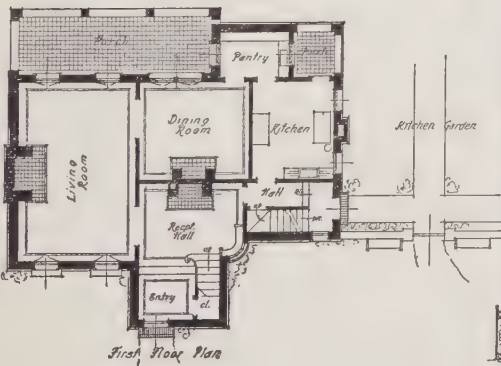
BRICKBUILDER - COMPETITION
HOUSE - TO - BE - FACED - WITH
HY-TEX - BRICK

ESTIMATE OF COST
(24' x 25') + (16' x 26½') + (12' x 7') =
1108.5 SQ. FT. x 30¢ = 332.40 CU. FT. +
PORCH (25' x 8' x 8') = 400 = 336.40 CU. FT.
336.40 CU. FT. x 22¢ = \$74.00.88

COLOR SCHEME
ALTERNATE HEADERS - HY-TEX FLASHED
GRAY MATT.
STRETCHERS - HY-TEX LIGHT GRAY MATT



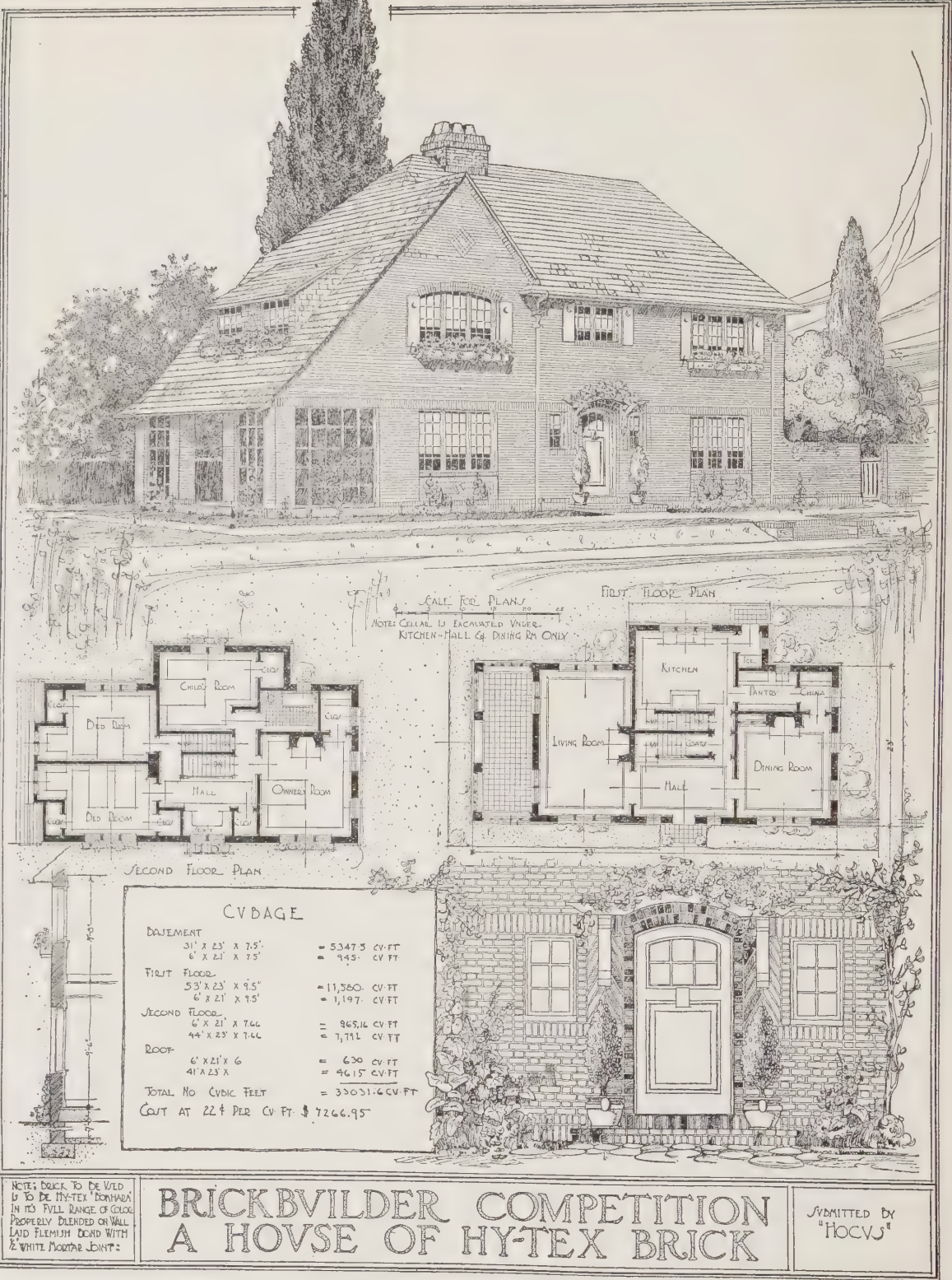
SUBMITTED BY



First Floor Plan



The Hy-tex House



DESIGN BY WILLIAM J. MOONEY
110 State Street, Boston, Mass.

A HY-TEX BRICK HOUSE

TO COST NOT EXCEEDING \$7,500.00

THE BRICKBUILDER COMPETITION

FEBRUARY 10, 1914.

SUBMITTED BY

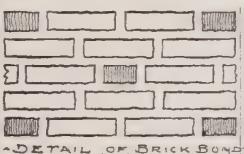
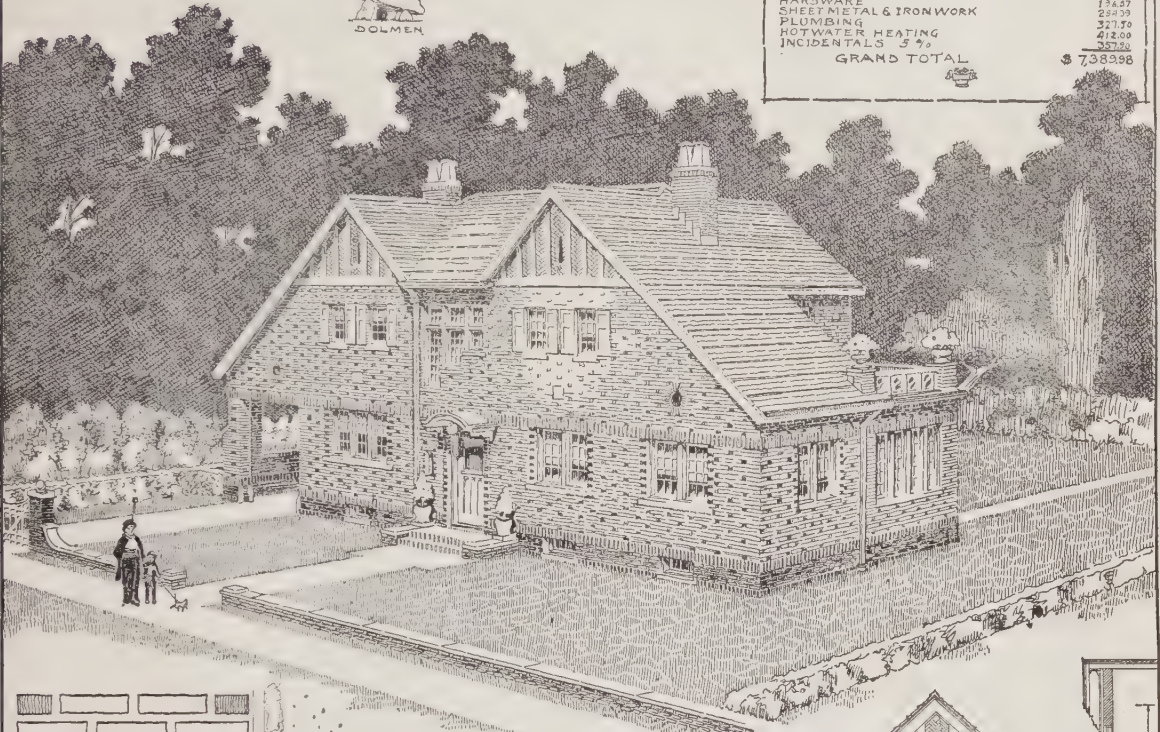


CUBICAL CONTENTS

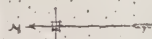
MAIN PART OF HOUSE	26'x35'x 32'6"	29375
SOUTH PART LIVING ROOM	10'x13'6"x 21'	2909
SUN PORCH	10'x12'4"x 14' ± 4	432
PORTE COCHERE	10'x13'6"x 16'6" ± 4	584
KITCHEN PORCH	8'x 11' x 13' ± 4	216
TOTAL CUBAGE		33607
33607 cu ft @ 22.4		= \$ 7393.54

ESTIMATE

EXCAVATION & MASON WORK	\$418.50
LUMBER	716.19
MILLWORK & GLAZING	1808.72
CARPENTER LABOR	673.20
PLASTERING	359.16
PAINTING	721.80
HARDWARE	134.57
SHEET METAL & IRONWORK	234.59
PLUMBING	321.70
HOT WATER HEATING	412.09
INCIDENTALS 5%	257.52
GRAND TOTAL	\$ 7383.98



DETAIL OF BRICK BOND



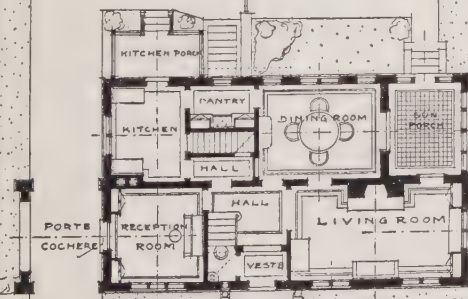
FRONT ENTRANCE

SCALE OF PLANS

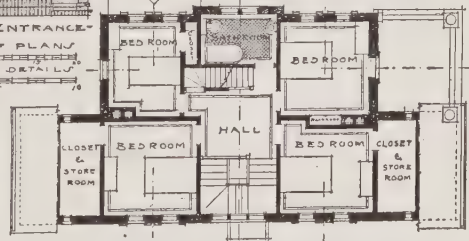
SCALE OF DETAILS



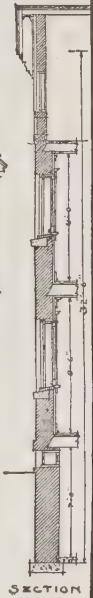
TYPICAL GABLE



FIRST FLOOR PLAN



SECOND FLOOR PLAN



SECTION

The Hy-tex House

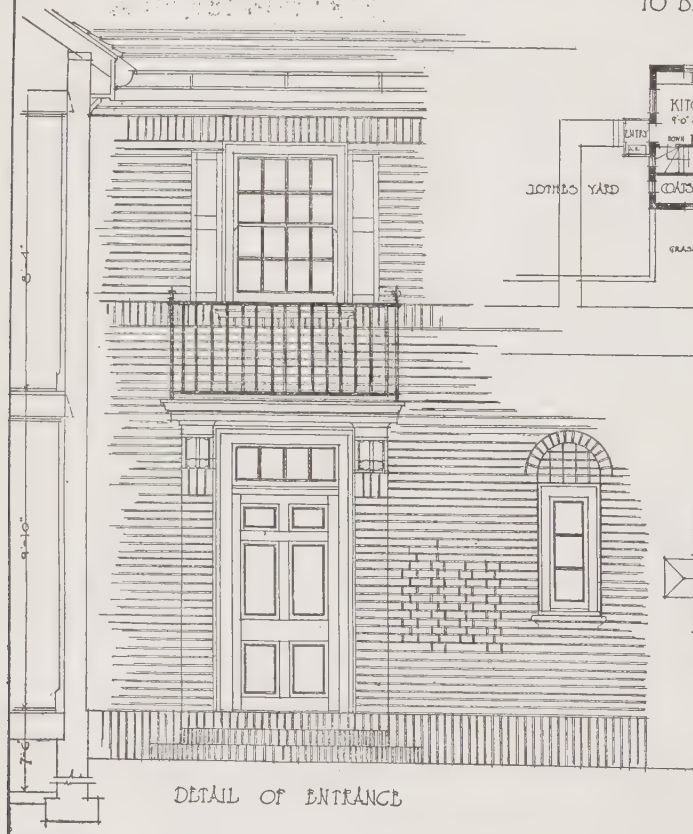
COMPUTATION OF COST
 AREA OF HOUSE 1020 SQ FT
 CUBE OF HOUSE 32640 CU FT
 CUBE OF PORCHES 25% 20000
 TOTAL CUBE 53140 CU FT
 AT 22 CENTS PER CU. FOOT

\$7290.00

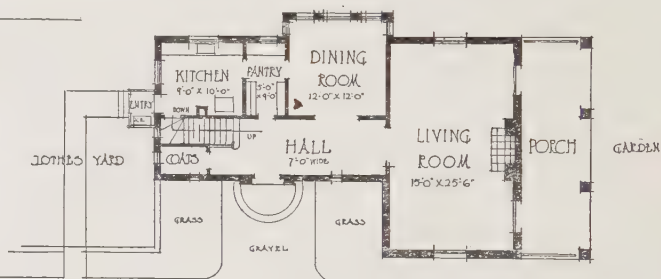
SUBMITTED BY



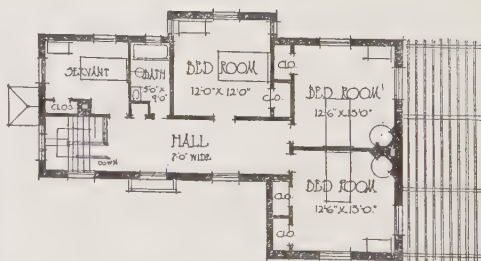
A 7500 DOLLAR HOUSE TO BE BUILT OF HY-TEX BRICK



DETAIL OF ENTRANCE



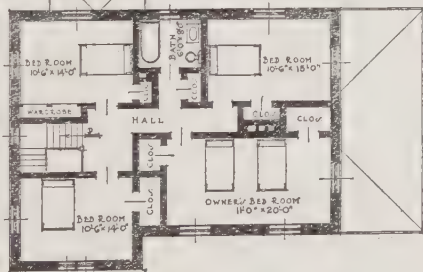
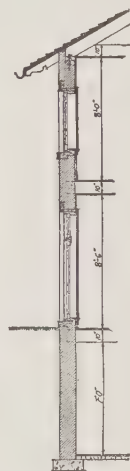
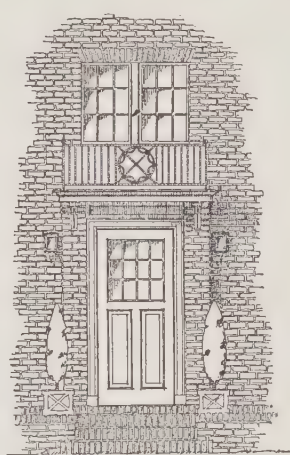
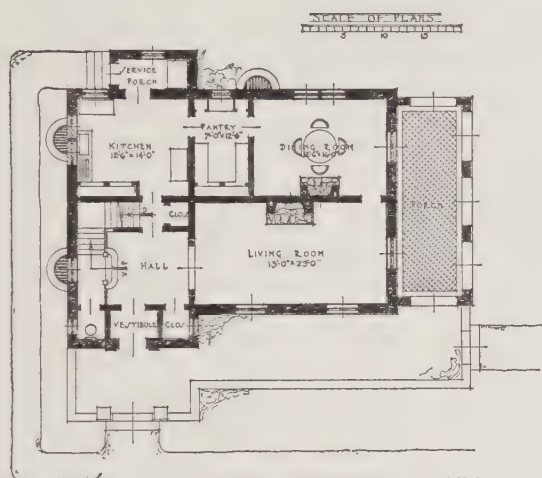
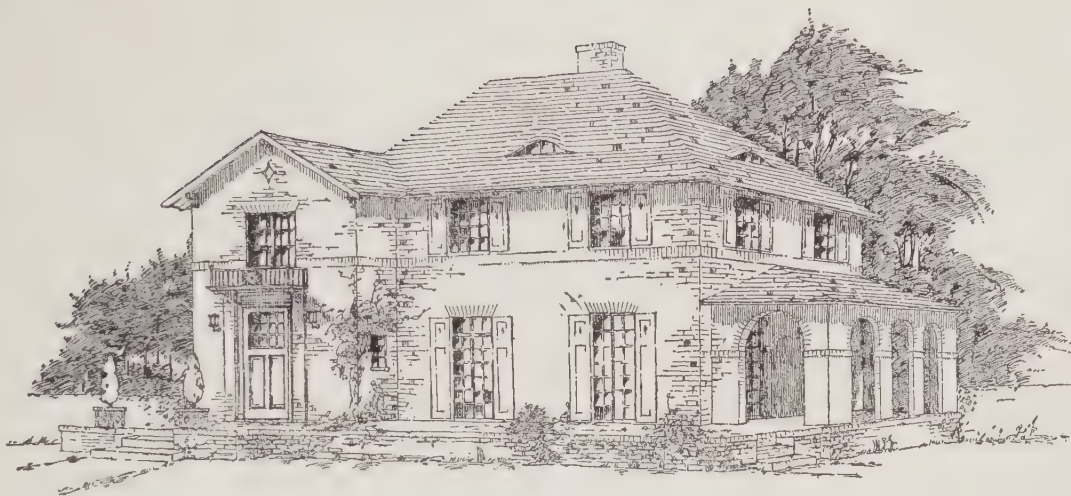
FIRST FLOOR PLAN



SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

DESIGN BY LOUIS SCHALK
 1135 Merchants Exchange Building, San Francisco, Cal.



CUBICAL CONTENTS OF HOUSE

MAIN HOUSE	40'0" x 28'0" x 30'0" =	33600
WING IN FRONT	6'0" x 4'0" x 21'0" =	1344
PORCH	(4'0" x 25'6" x 12'0") 1/2 =	639
SERVICE WING	(0'6" x 4'8" x 12'0") 1/2 =	147
AREAS CHIMNEY & STEPS		40
DEDUCTING FOR UNEXCAVATED PORTION ON RIGHT SIDE OF HOUSE		35820
		1730

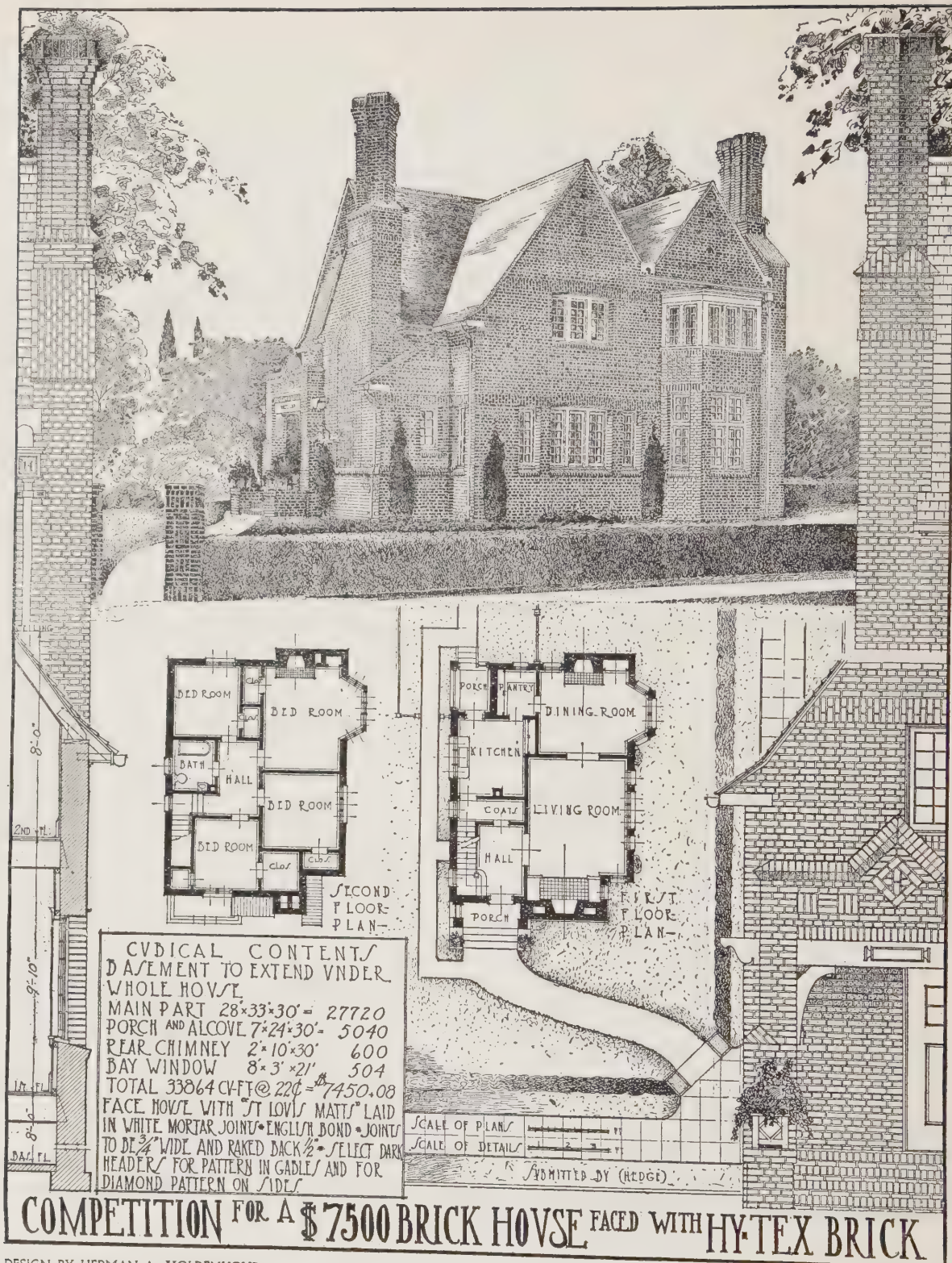
TOTAL CUBIC FT. = 34090

COST 34090 CU FT. x 22¢ = \$7499.80



COMPETITION FOR A BRICK HOUSE TO COST
SEVEN THOUSAND FIVE HUNDRED DOLLARS

The Hy-tex House



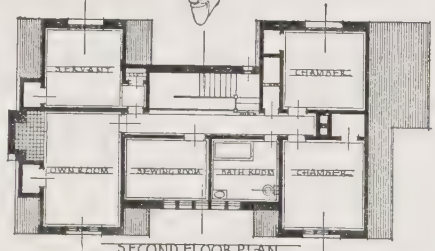
DESIGN BY HERMAN A. MOLDENHOUR
 1319 Alaska Building, Seattle, Wash.

The Hy-tex House

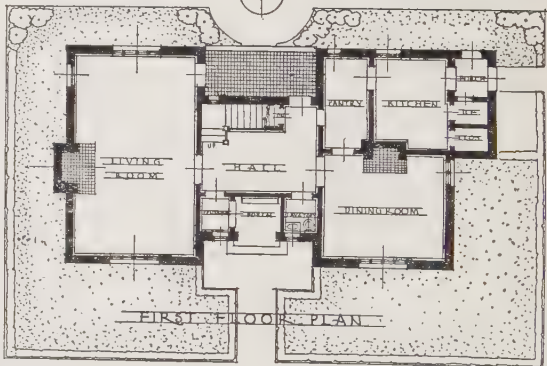


COMPETITION FOR A
HYTEX BRICK HOUSE

SUBMITTED BY

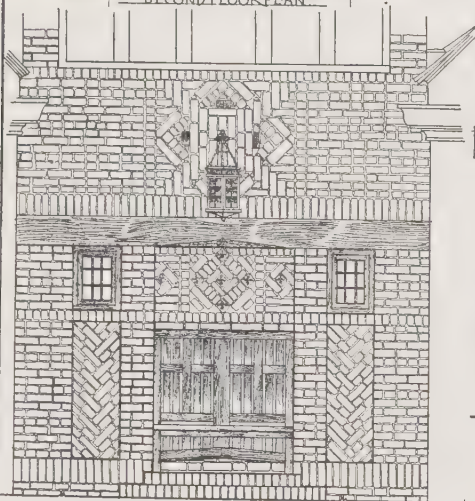


SECOND FLOOR PLAN



FIRST FLOOR PLAN

SCALES



DETAIL OF ENTRANCE



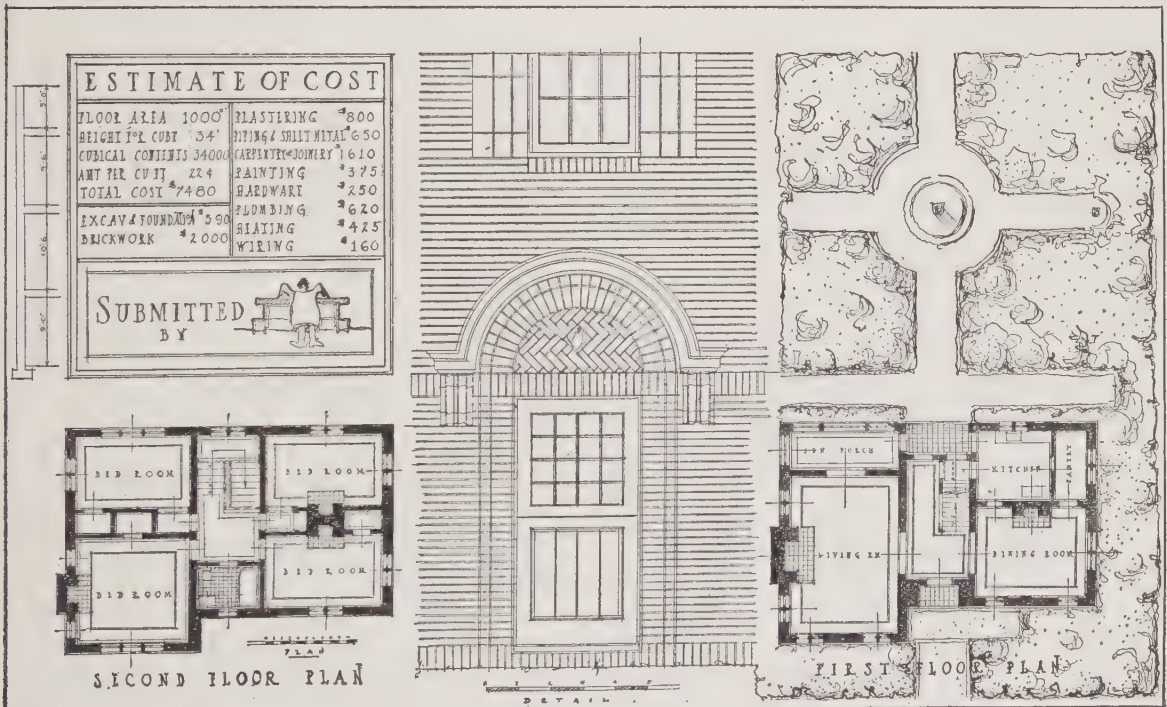
SECTION

SCHEDULE OF COSTS ETC.	
LIVING ROOM 12 X 27 =	459 SQ. FT.
DINING ROOM	
KITCHEN & PANTRY 17 X 27 =	459
HALL 13 X 18 =	234
REAR PORCH	
ICE BOX ETC. 5 X 13 =	65
CHIMNEY 2 X 6	12
TOTAL AREA	1229
AT AVERAGE HEIGHT OF 27 FT.	
EQUAL 533,183 CUBIC FEET	
AT 22¢ PER CU. FT. =	\$73,300.26
RED BRICK OF VARIOUS SHADES TO	
BE Laid DOUBLE STRETCHER BOND	
WITH HALF INCH JOINTS	

DESIGN BY HENRY BOAK
456 East 183d Street, New York, N. Y.

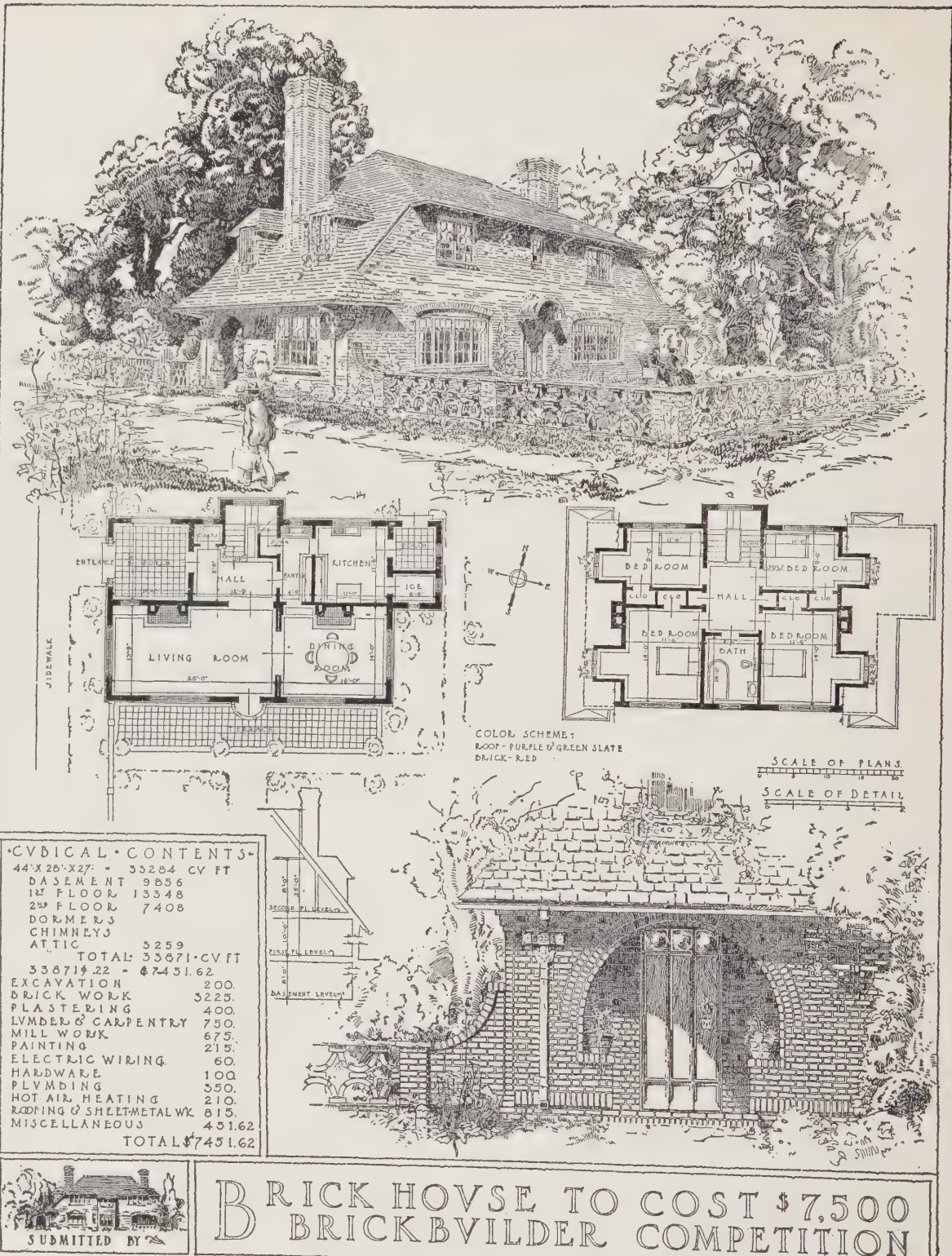


COMPETITION FOR A \$750,000 BRICK HOUSE • Hy-tex •

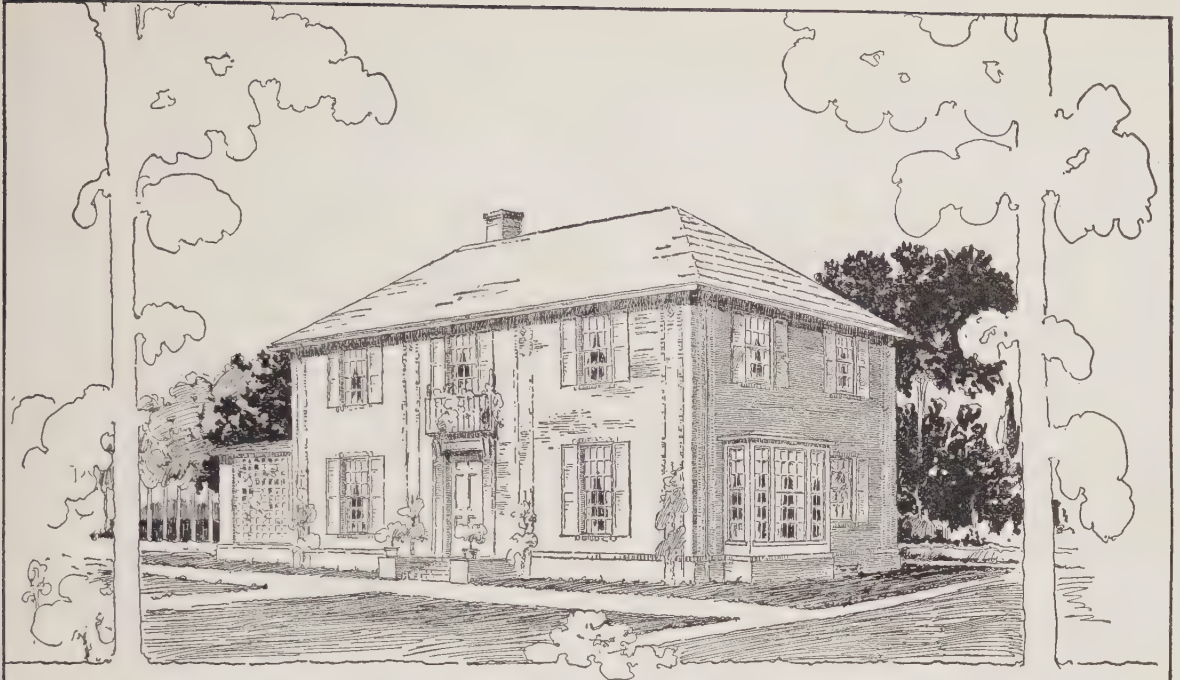


DESIGN BY CHARLES G. BEERSMAN
244 Fifth Avenue, New York, N. Y.

The Hy-tex House



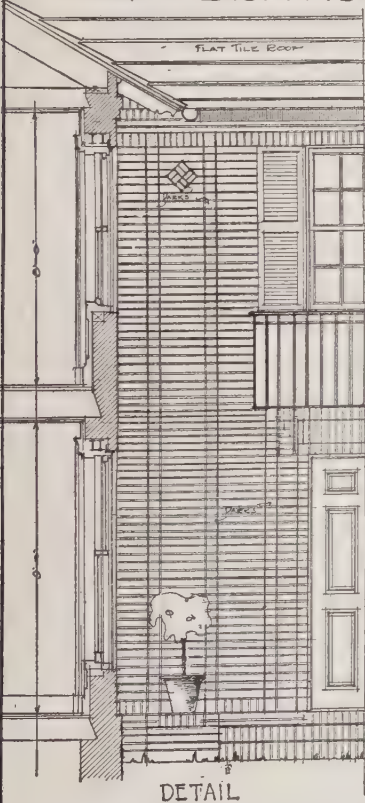
DESIGN BY ANTONIN A. RAYMOND
 548 Riverside Drive, New York, N. Y.



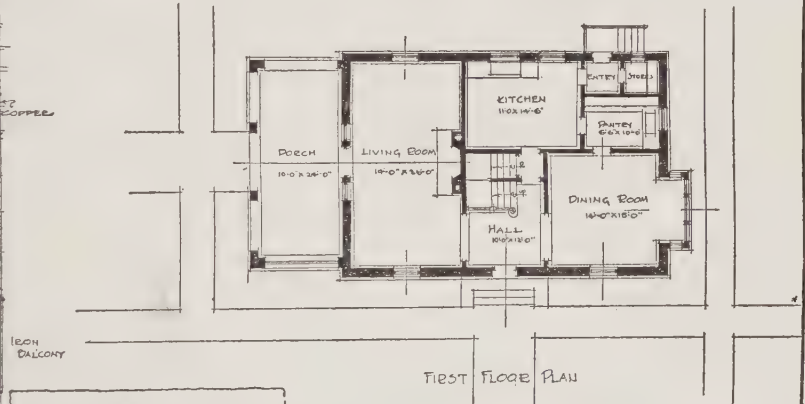
BRICK HOUSE
COST \$7,500

BRICKBUILDER COMPETITION

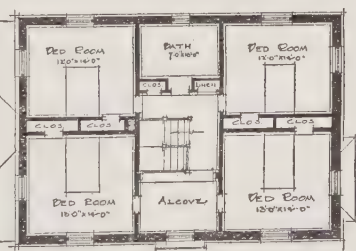
SUBMITTED BY
JAX



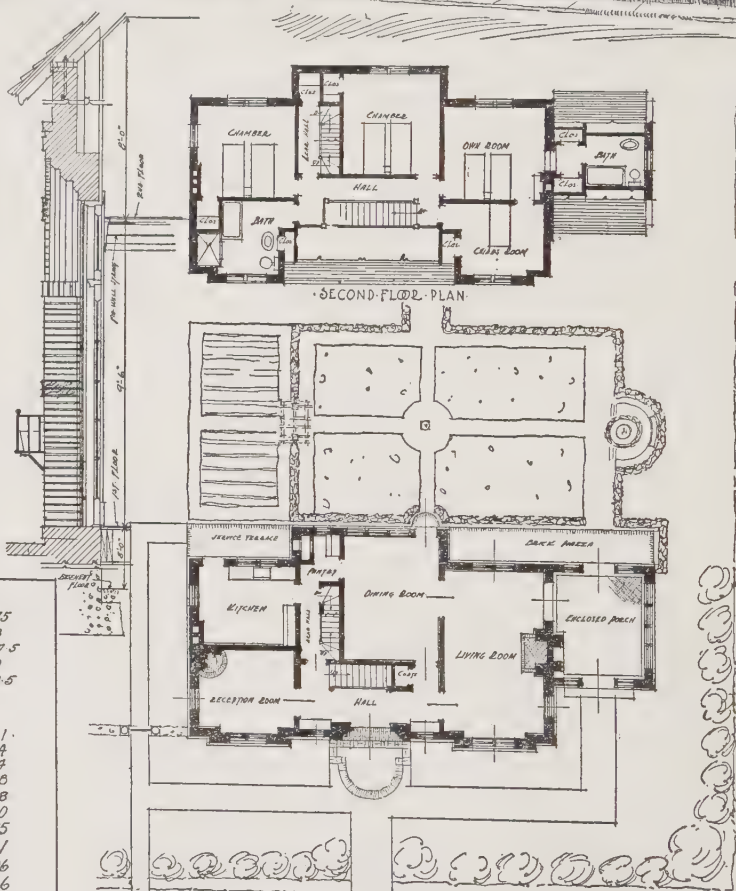
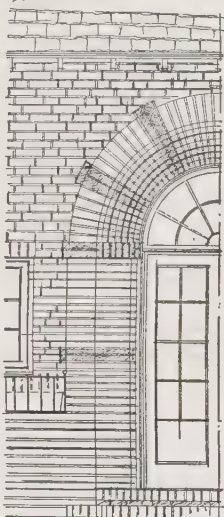
DETAIL



• CYBICAL CONTENTS •
• OF HOUSE •
OUTSIDE 28'0" X 41'0"
HEIGHT 29'0"
 $28 \times 41 \times 29 = 33,292$
PORCH $12 \times 26 \times 10 = 3,120$
 $33,292 \times 2 \frac{1}{2} = 73,242.4$
 $3,120 \times 5 \frac{1}{2} = 17,160$
TOTAL \$74,958.4
SCALE
DETAIL — PLAN —



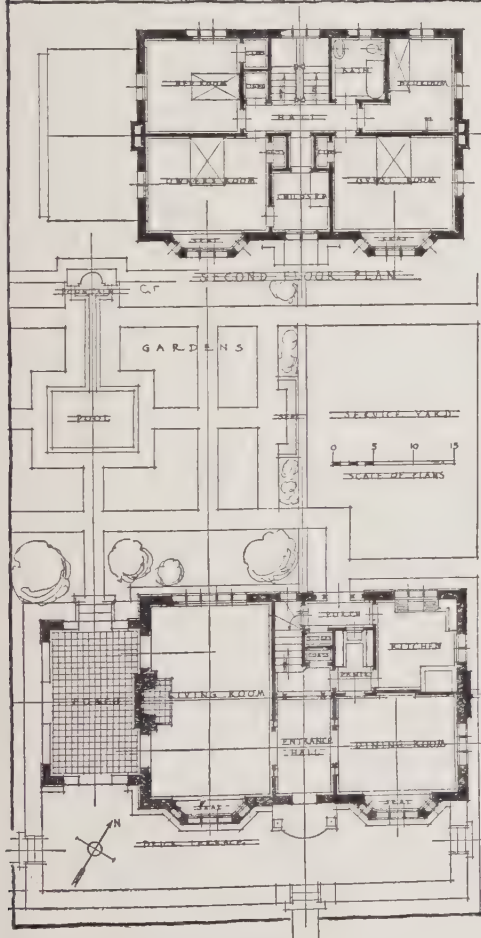
The Hy-tex House



THE CUBAGE	
MAIN BUILDING 22'x45'x30.5' =	30195
PROJECTION AT REAR 14'x4'x30.5' =	2318
BAYS 2'x10'x36'x30.5' =	457.5
PORCH 1/2'x12'x15'x18' =	810
TOTAL CUBAGE =	33780.5
COST AT 22¢ PER CU. FT. =	\$7432
ITEMS OF COST.	
EXCAVATING	301.
BRICK	2354
PLASTERING	364
LUMBER & CARPENTRY	1736
MILL WORK	1078
PAINTING	350
ELECTRIC WIRING	85
HARDWARE	101
PLUMBING	606
HOT AIR HEATING	226
MISCELLANEOUS	49
TOTAL COST \$7432	

• BRICK BUILDER COMPETITION FOR A BRICK HOUSE •
 • TO COST \$7500.00 • SUBMITTED BY "COVNT"

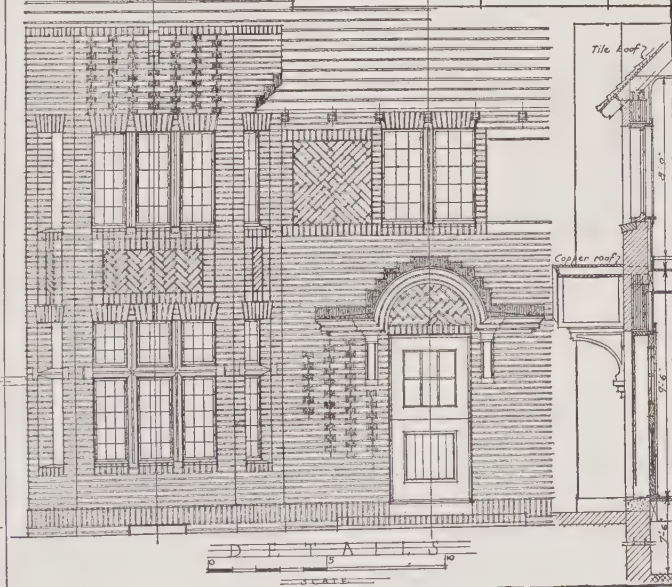
DESIGN BY E. D. STONEROD
 R. F. D. No. 4, Bellevue Br., Pittsburg, Pa.



PERSPECTIVE
SCALE
0 5 10 15

THE
BRICKBUILDER
COMPETITION
FOR
A \$7500
BRICK HOUSE
SUBMITTED BY
A. T. V. B. Y. A.

~ COST DATA ~	
CUBAGE	ITEMS
MAIN PART OF HOUSE IS TWENTY SIX BY FORTY BY THIRTY ONE FEET HIGH EQUALS 32240 CUBIC FEET.	EXCAVATING 150
BAYS ARE TWO BY NINE BY TWENTY SIX FEET HIGH EQUALS 496 CUBIC FEET.	MASONRY 2250
PORCH IS TWELVE BY TWENTY BY FORTY FEET HIGH EQUALS 2260 EQUALS 840 CUBIC FEET.	CARPENTRY 2275
TOTAL = 34096 CUBIC FEET.	PLASTERING 400
AT 220 = \$7483.52	PAINTING 120
	ELECT. WIRING 100
	GLAZING 215
	PLUMBING 465
	HEATING 500
	HAIRWARE 150
	MISCELLANEOUS 215
	TOTAL \$7500



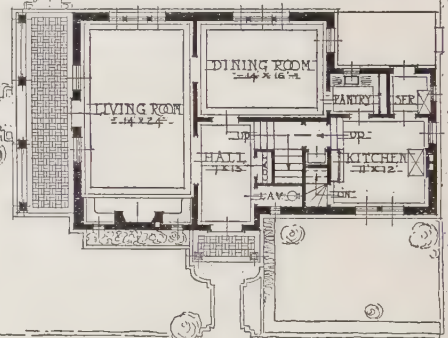
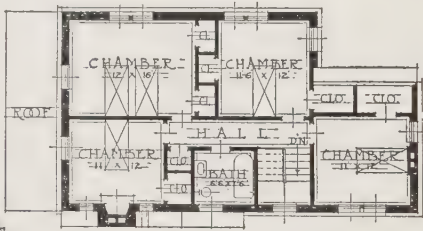
DESIGN BY DONALD C. BOLLARD
815 West 179th Street, New York, N. Y.

The Hy-tex House

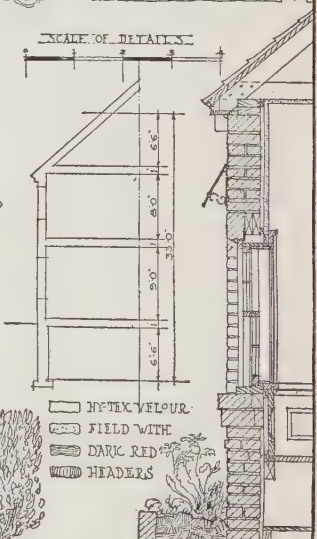
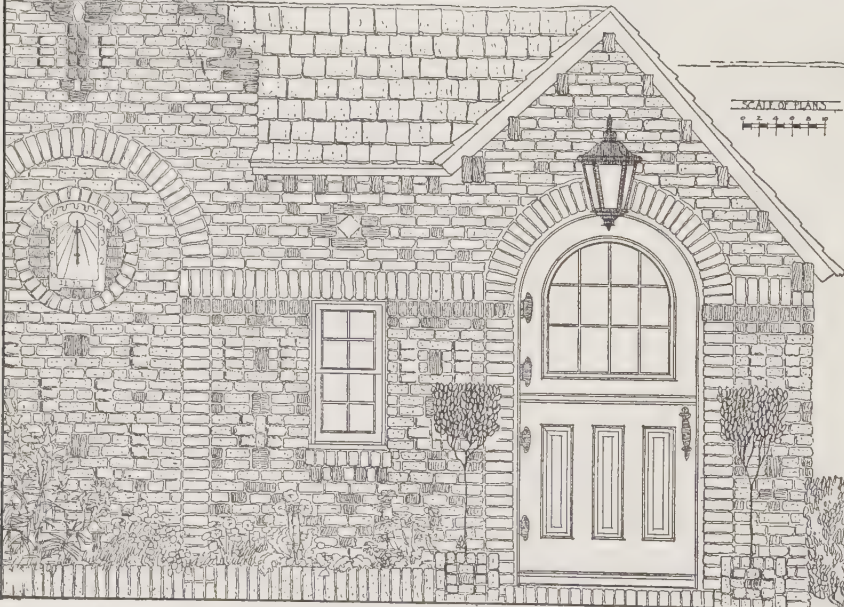


\$7500 BRICK HOUSE.	
EXCAVATING	= \$125.00
MASON WORK	= 3375.00
CARPENTER	= 2300.00
PLUMBING & HEAT	= 800.00
HARDWARE &	=
LIGHTING FIXTURES	= 300.00
TOTAL COST	= \$7500.00
CUBAGE.	
MAIN HOUSE 25'3 1/2' x 33' =	267.96
KIT. WING 12'6" x 15'6" =	58.90
PORCH 7' x 25' x 10' =	4.38
EXTENSION 2' x 25' x 18' =	82.8
TOTAL CUBAGE	= 353.952
33,952 CUB. FT. @ 22¢	\$7,465.44

Submitted by

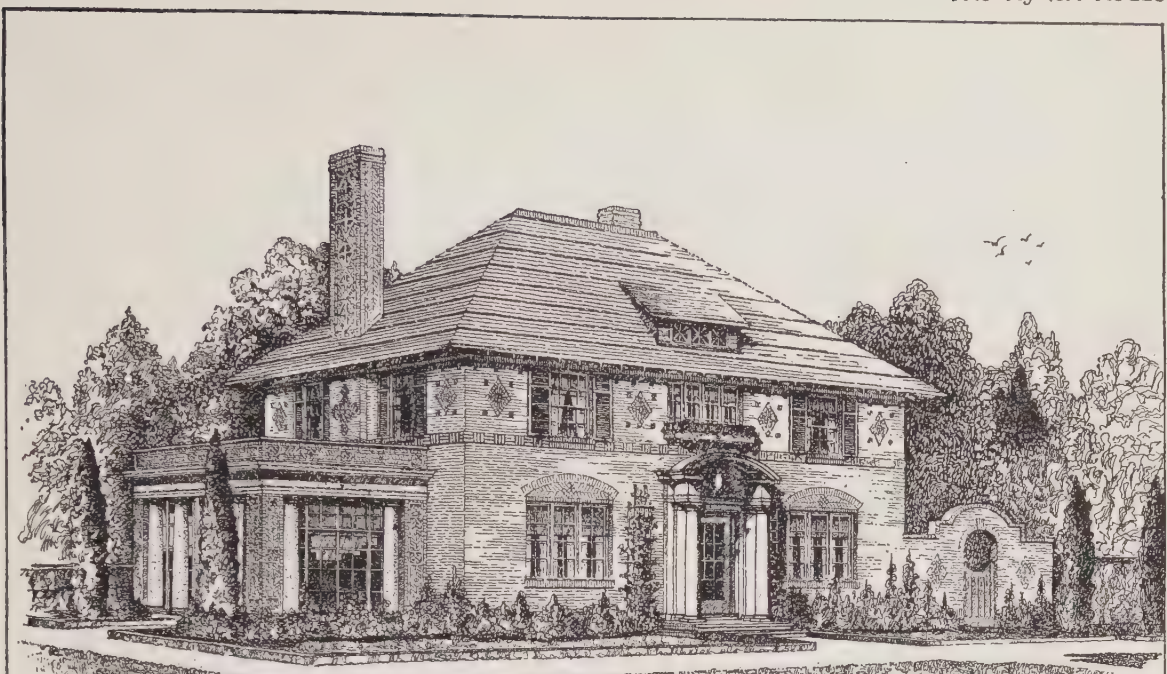


SCALE OF PLAN
SCALE OF DETAILS

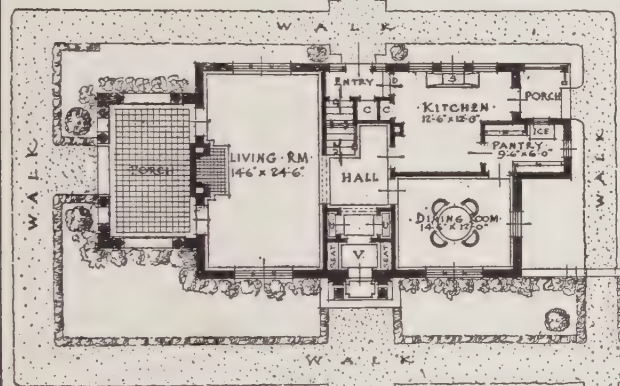


- HY-TEX VELOUR
- FIELD WITH
- DARK RED
- HEADERS

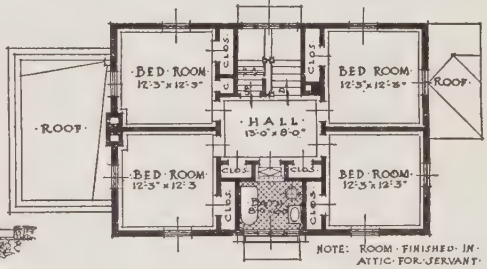
DESIGN BY RICHARD S. FALLESEN
345 Fifth Avenue, New York, N. Y.



▷ BRICK ▷ HOUSE ▷ COMPETITION
▷ FACED ▷ WITH ▷ HY-TEX ▷ BRICK
▷ COST ▷ NOT ▷ TO ▷ EXCEED ▷ \$ 7500



▷ FIRST ▷ FLOOR ▷ PLAN ▷



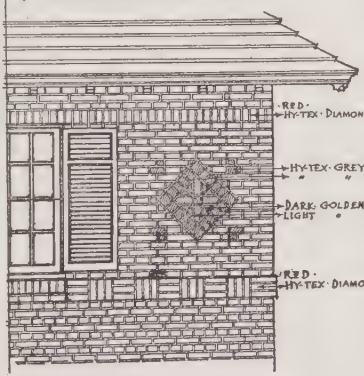
▷ SECOND ▷ FLOOR ▷ PLAN ▷

▷ SUBMITTED ▷ BY ▷



PLANS 1 2 3 4 5 6 7 8 9 10 11 12
SECTION 1 2 3 4 5 6 7 8 9 10 11 12
DETAILS 1 2 3 4 5 6 7 8 9 10 11 12

▷ CUBAGE ▷	
MAIN PORTION	40'x26'-6"x31' ≈ 32860
SIDE PORCH+PANTRY	14'x6'x12' (4) ≈ 252
ENCLOSED PORCH	19'x12'x12' (4) ≈ 684
FRONT ENTRANCE	8'x3'x12' (4) ≈ 72
COST	\$7450.96 ≈ \$0.22 x 33868
▷ ITEMS WITH COSTS ▷	
EXCAVATING	125
HY-TEX BRICK	1000
MASON WORK	1650
PLASTERING	600
CARPENTRY	2500
PLUMBING	400
HEATING	375
PAINTING	300
ELECTRIC WIRING	125
HARDWARE	125
MISCELLANEOUS	300
\$7500	



▷ LEGEND ▷

BODY OF HOUSE FACED WITH RED-ST. LOUIS MATT ▷ WATERTABLE HY-TEX DIAMOND MATT ▷ STRETCHERS LAID VERTICAL & FLUSH ▷ BELT COURSE ▷ HY-TEX DIAMOND MATT ▷ DIAMOND PATTERNS IN FRIEZE BORDER OF HY-TEX GREY MATT CENTER DESIGN OF GOLDEN MOTTL'D MATTS BOTH DARK & LIGHT ▷ FROM WATERTABLE TO BELT COURSE BRICK LAID WITH DUTCH CROSS BOND ▷ ABOVE BELT COURSE IN ENGLISH BOND ▷ PORCH PIERS & CHIMNEYS ABOVE ROOF IN ST. LOUIS BOKHARA MEDIUM RANGE & VENETIAN RED ▷ ALL BRICKWORK 5/8" FLUSH WHITE JOINT

DESIGN BY DANIEL SHEA
33 Lyman Street, Springfield, Mass.

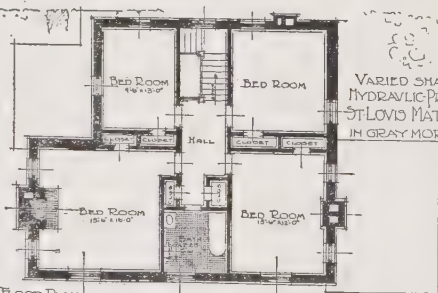
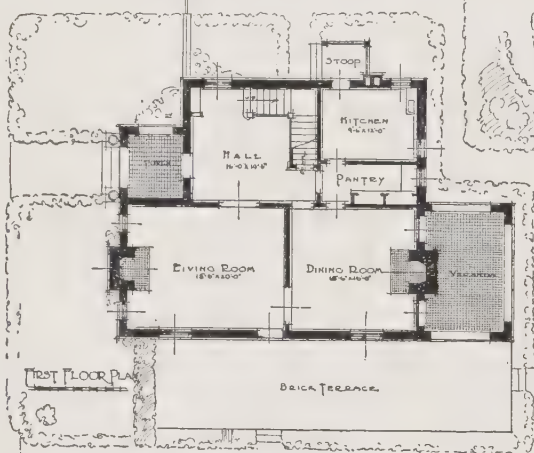
The Hy-tex House

SUBMITTED BY

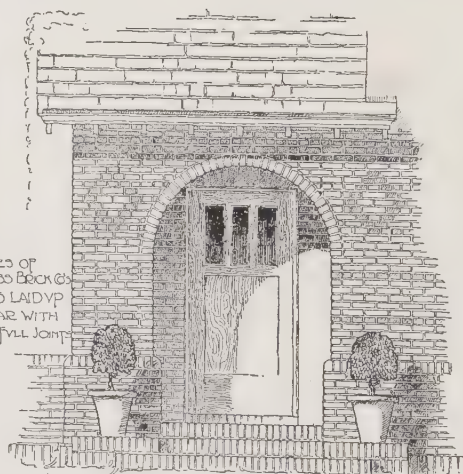


• CVBAGE •

BASEMENT	15 X 30 X 7 =	3150 CV FT.
MAIN PART	17 X 38 X 26 =	16796 " "
HALL-KITCHEN ETC.	15 X 30 X 26 =	11700 " "
ENTRANCE PORCH	9 X 8 X 12 + 4 =	216 " "
VERANDA	11 X 17 X 12 + 4 =	561 " "
KITCHEN ENTRY	5 X 6 X 10 + 4 =	75 " "
2 CHIMNEYS	4 X 1 X 30 =	240 " "
TOTAL CV FT.		32738 " "
COST PER CV FT.		22 CTS.
TOTAL COST		\$7202.36



VARIED SHADES OF
HYDRAULIC PRESS BRICKS
STAINED MATTS LADY P
IN GRAY MORTAR WITH
8 FULL JOINTS

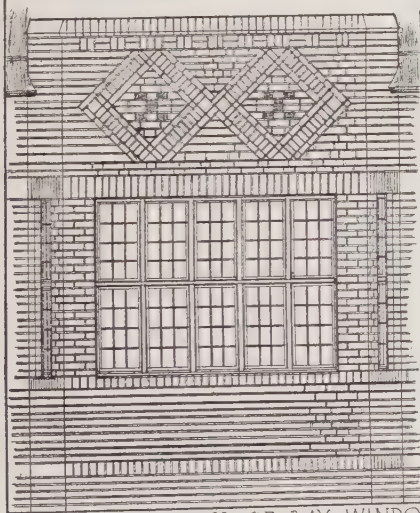


• BRICKBUILDER • COMPETITION • ~ • A. \$7500.00 • BRICK • HOUSE •

DESIGN BY JAMES L. GATLING
504 Southern Trust Building, Little Rock, Ark.



1 2 3 4 5 6 7 8
SCALE OF PERSPECTIVE



HALF INCH DETAIL OF DAY WINDOW

SCHEDULE CUBAGE & MATERIALS

LIVING ROOM WING	- 15x21x28' =	882 0
CENTRAL HALLIES	- 21x21x28' =	1234 8
DINING ROOM WING	- 13x14x28' =	588 0
KITCHEN WING	- 16x13x26' =	540 8
DAY WINDOWS	- 2/3x10x19' =	119 7
CHIMNEYS	- 2/3x2x35' =	42 0
TOTAL CUBAGE		= 34,073

□ TOTAL COST OF HOUSE □
34,073 CUBIC FEET @ 22¢ = \$7,496.06

BRICKWORK TO BE HY-TEX IN TWO *
COLOURS - DARK RED STRETCHERS WITH
HEADERS VARYING TO A PURPLE * TEXTURE *
TO BE HY-TEX NO 17 * FLEMISH DOUBLE *
STRETCHER BOND HALF INCH JOINT *
WITH EVERY FOURTH ROW HEADERS *
ROOF TO BE GRADUATED SLATE WITH *
MALLETTED COPPER RIDGE * WINDOWS TO
BE CASEMENTS WITH LEADED GLASS *

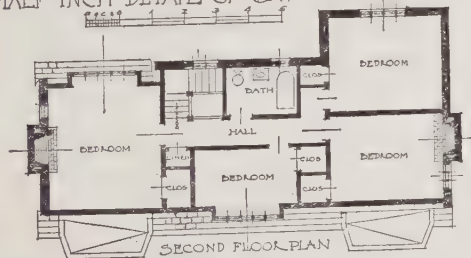


SUB -
MITTED
BY

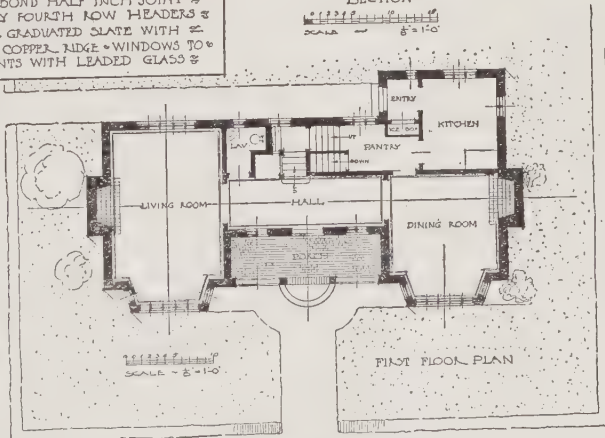


SECTION

SCALE - 1/8" = 1'-0"



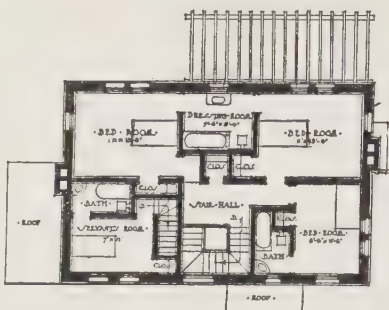
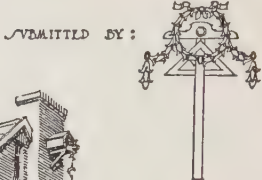
SECOND FLOOR PLAN



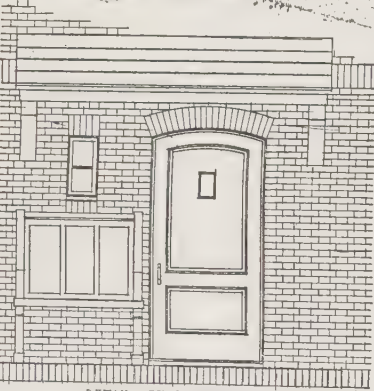
FIRST FLOOR PLAN

BRICKBUILDER COMPETITION FOR A \$ 7500 BRICK HOUSE

COMPETITION FOR A BRICK HOUSE TO COST SEVENTY-FIVE HUNDRED DOLLARS



SECOND FLOOR PLAN
0 1 2 3 4 5 6 7 8 9 10 FT.



DETAIL OF ENTRANCE

CUBAGE OF HOUSE

BASMENT TO GRADE	975 SQ. FT. X 6 1/2' EQ.	6358
GRADE TO 2ND FLOOR LEVEL	1000 SQ. FT. X 11 1/2' EQ.	12320
2ND FLOOR LEVEL TO MEAN ROOF	975 X 14 1/2' EQ.	14158
PORCHES		625
DINING ROOM DAY CHIMNEY		120
		400

TOTAL CUBAGE : 33941

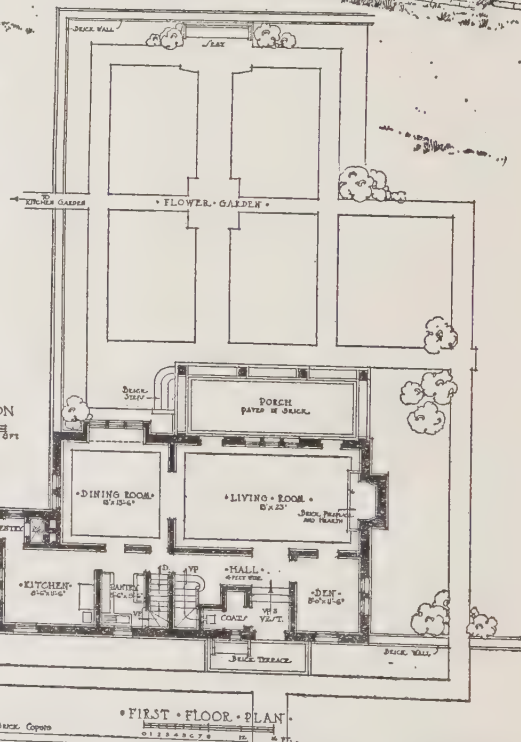
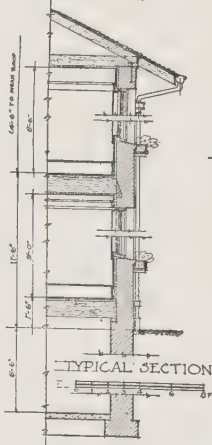
COST FIGURED AT 22 CENTS PER CUBIC FOOT
33941 X 22 = \$ 7467.02

ITEMIZED COST OF BUILDING

EXCAVATING	\$ 25000
BRICKWORK INCLUDING FOOTINGS	270000
CARPENTRY	200000
PLUMBING	65000
PLASTERING	50000
PAINTING	35000
HEATING	35000
ELECTRIC WIRING AND FIXTURES	40000
HARDWARE	25000

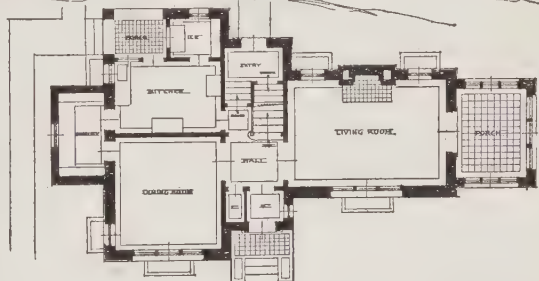
TOTAL COST \$746700

PERSPECTIVE

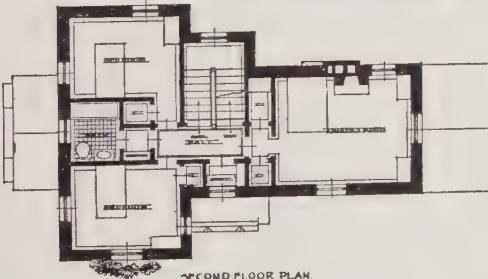


FIRST FLOOR PLAN
0 1 2 3 4 5 6 7 8 9 10 FT.

DESIGN BY GEORGE RICHARD KLINKHARDT
Apartment 309 El Nido Apartments, Oakland, Cal.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

BRICK BUILDER
COMPETITION
FOR A
BRICK HOUSE
TO COST
\$7500.00

SCALE OF PLANS

SCALE OF DETAILS

SUBMITTED BY

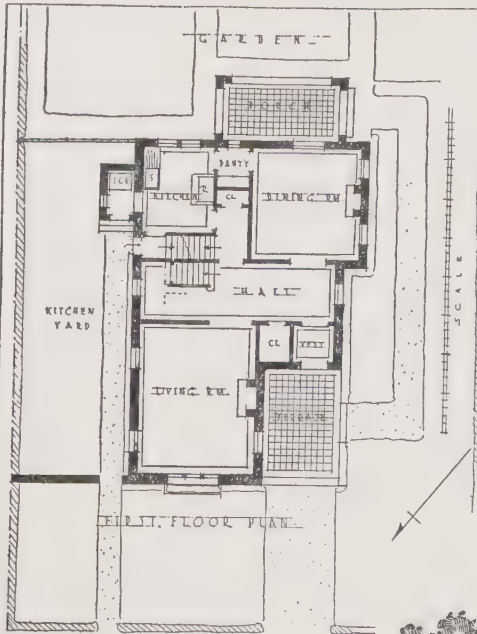
19 14

CUBAGE		
DINING ROOM & KITCHEN	16'X20'X12'	= 15872.
STAIR HALL	8'X20'X12'	= 5120
LIVING ROOM	16'X20'X12'	= 10496
PANTRY	8'X12'X12'	= 936
VESTIBULE	4'X8'X12'	= 384
PORCH	10'X15'X12'+4'	= 590
TOTAL CUBIC CONTENTS		= 33198
TOTAL COST AT 22 CTS. PER CU. FT.		= 7503.50

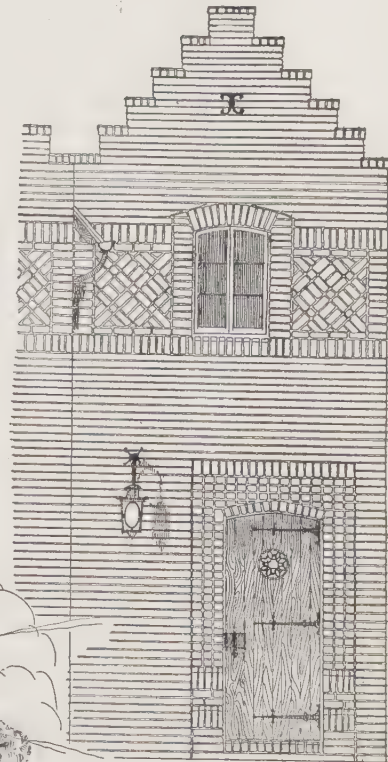
ITEMS OF COST.

MASONRY	3100.00
CARPENTRY	1960.00
CUT STONE	150.00
PLUMBING	475.00
HEATING	400.00
ELECTRIC WIRING	125.00
PLASTERING	450.00
PAINTING	350.00
GLAZING	110.00
LIGHTING FIXTURES	100.00
HARDWARE	200.00
MISCELLANEOUS	90.00
TOTAL COST	7500.00

FACE BRICK TO BE HY-TEX, MIXED BROWN-VELOUR, MORTAR COLOR DARK BROWN, BRICK TO BE LAID WITH 1/2 IN BED JOINTS, RAKED DEEP, CROSS JOINTS STRUCK FLUSH, ALL PAVEMENTS TO BE OF HY-TEX NO. 505, GRAY, WITH BROWN MARBLE. ROOF SHINGLES STAINED GREEN.



COST OF HOUSE	
CUBIC CONTENTS	30700 FT.
PORCH	2880
TERRACE	400
	<u>33980</u>
$33980 \times .22 = \$7475.00$	
ITEMIZED:	
EXCAVATION	125
MASONRY	3300
CARPENTRY	2700
PLUMBING	550
HEATING	450
PAINTING	700
ELECTRIC WORK	125
HARDWARE	125
	<u>TOTAL 7475.00</u>



SCALE

BODY OF HOUSE TO BE OF
VARIED DARK RED BRICK.
BAND COURSE TO BE OF REDS,
BROWNS AND BLACKS.

SUBMITTED BY

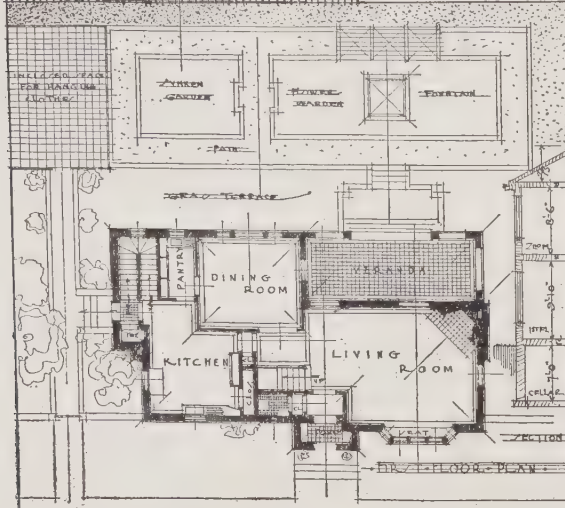
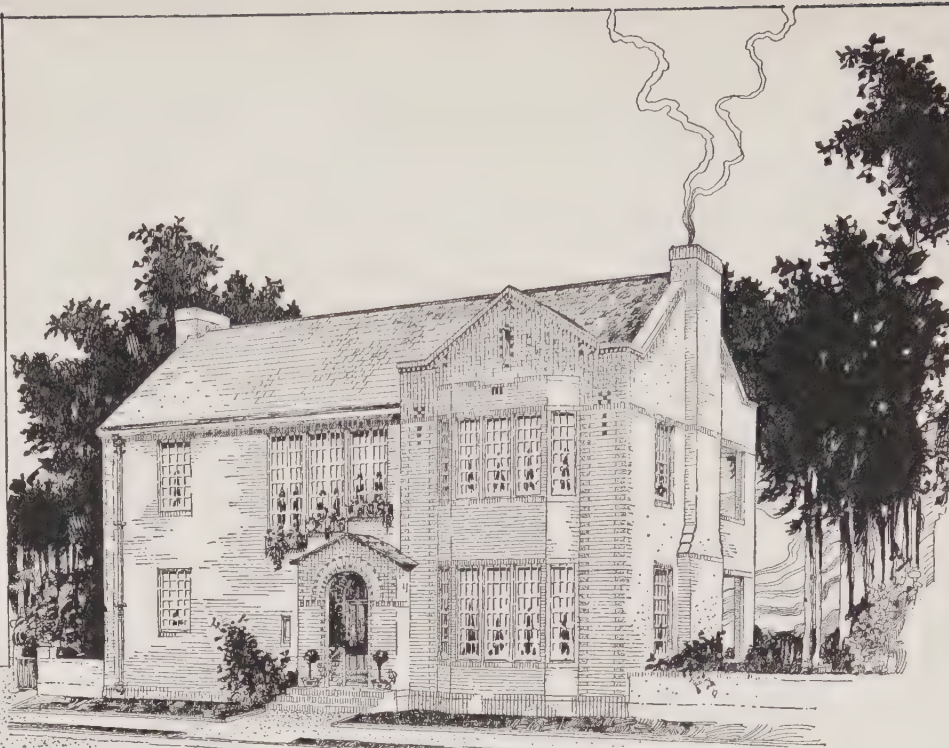
CELLAR

• BRICKBUILDER COMPETITION • A \$7500. HOUSE FACED WITH HY-TEX BRICK.

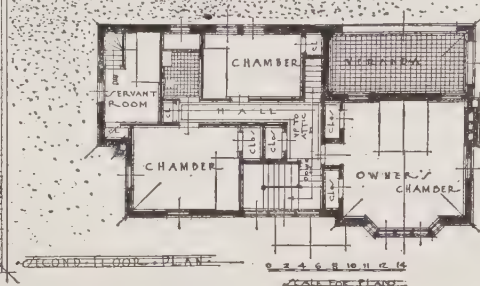
ADMITTED



BRICK WORK - NOTE -
THE BODY COLOR OF BRICK
TO BE SIMILAR IN SHADE AS
THE SILVER GRAY BRICK SHOWN
IN PLATE NO.2 OF CATALOGUE
WHILE GLAZE TO BE LIKE OTHER
BRICK IN SAME PLATE ■■■ INDICATE
A DARK BLUE RED ■■■ A DARK RED
/ REACT OF BRICK SEMI-GLOSS
FLY-H JOINTS WITH GRAY COLOR
MONTAR * * * * *



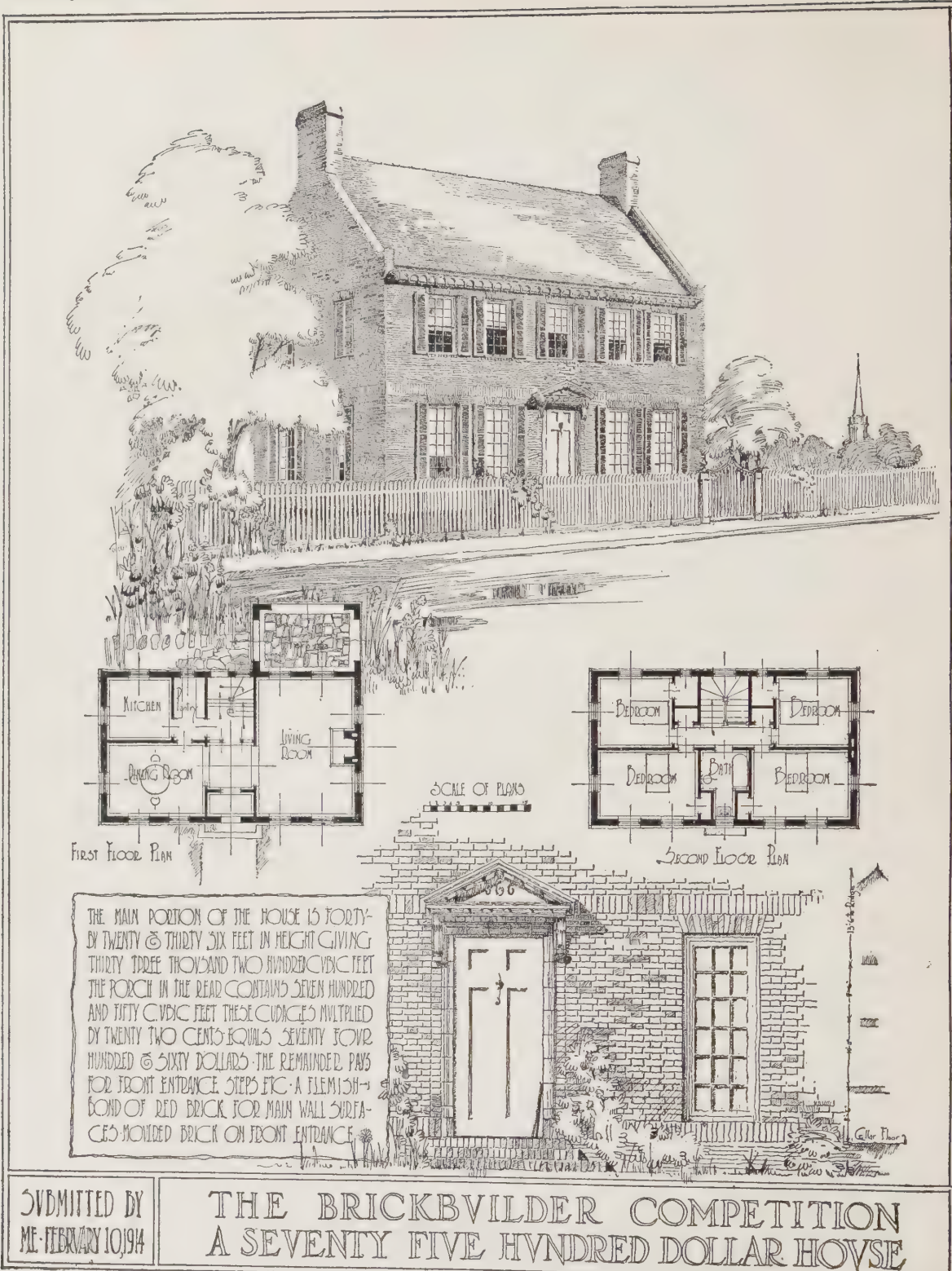
THE CYBAGE		
21X24X55	DINING RM/KITCHEN PART	166.32
22X17X55	LIVING RM/HALL PART	173.42
4X15X55	KITCHEN EXTENSION	198.60
11X2X23	DAY WINDOW	50.6
22X9X25X4	REAR PORCHE	125.1
8X4X10X4	FRONT PORCH	98
TOTAL		327.95 CYH
AT 22 CEN PER CYH		TOTAL \$ 7214.30
ITEMS OF COST		
EXCAVATION		200.00
BRICK WORK		2500.00
MAZON WORK		1200.00
CEILING		250.00
WIMBER AND CARPENTRY		2000.00
PAINTING		300.00
PAINTING		250.00
HOLAR HEATER		350.00
CEILING		200.00
ELECTRIC WORKS AND HARDWARE		200.00
MISCELLANEOUS		150.00
TOTAL		7500.00



The Hy-tex House

DESIGN BY GUSTAVE G. VIGOUROUX
50 West 84th Street, New York, N. Y.

The Hy-tex House



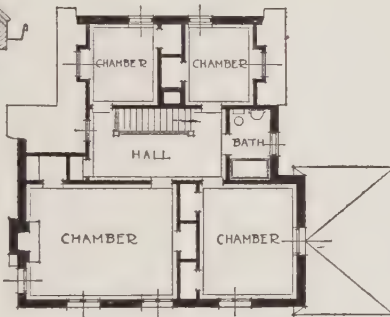
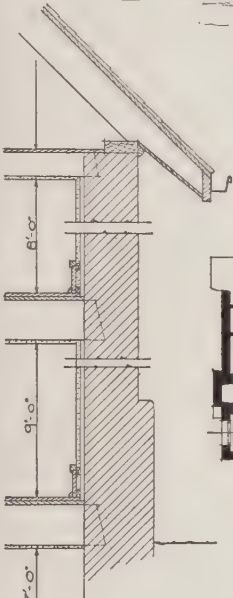
SUBMITTED BY
MR. FEBRUARY 10, 1914

THE BRICKBILDER COMPETITION
A SEVENTY FIVE HUNDRED DOLLAR HOUSE

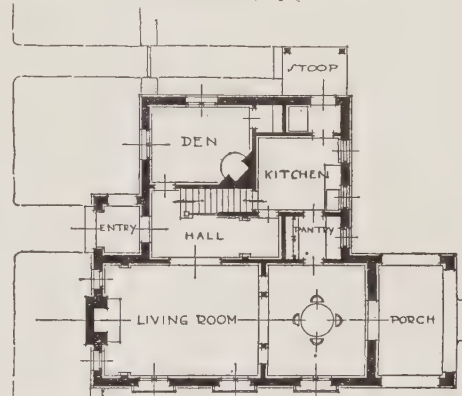
DESIGN BY ALFRED P. SHAW
50 Adams Street, Dorchester, Mass.



SUBMITTED BY



SECOND FLOOR PLAN



FIRST FLOOR PLAN

SCALE OF PLANS
0 5 10 20

COMPETITION FOR A BRICK HOUSE

— TO COST \$7500 —

“CUBAGE”

LIVING & DINING ROOMS—16'-6" X 36'-0"=594^{sq}
WING—26'-6" X 20'-0"=530 "
ENTRY—6'-0" X 7'-6"÷4= 13 "
PORCH—10'-0" X 6'-6"÷4= 41 "
TOTAL NO OF SQ. FT.—1178^{sq}
28'-6" X 1178°= 33573 CU. FT.

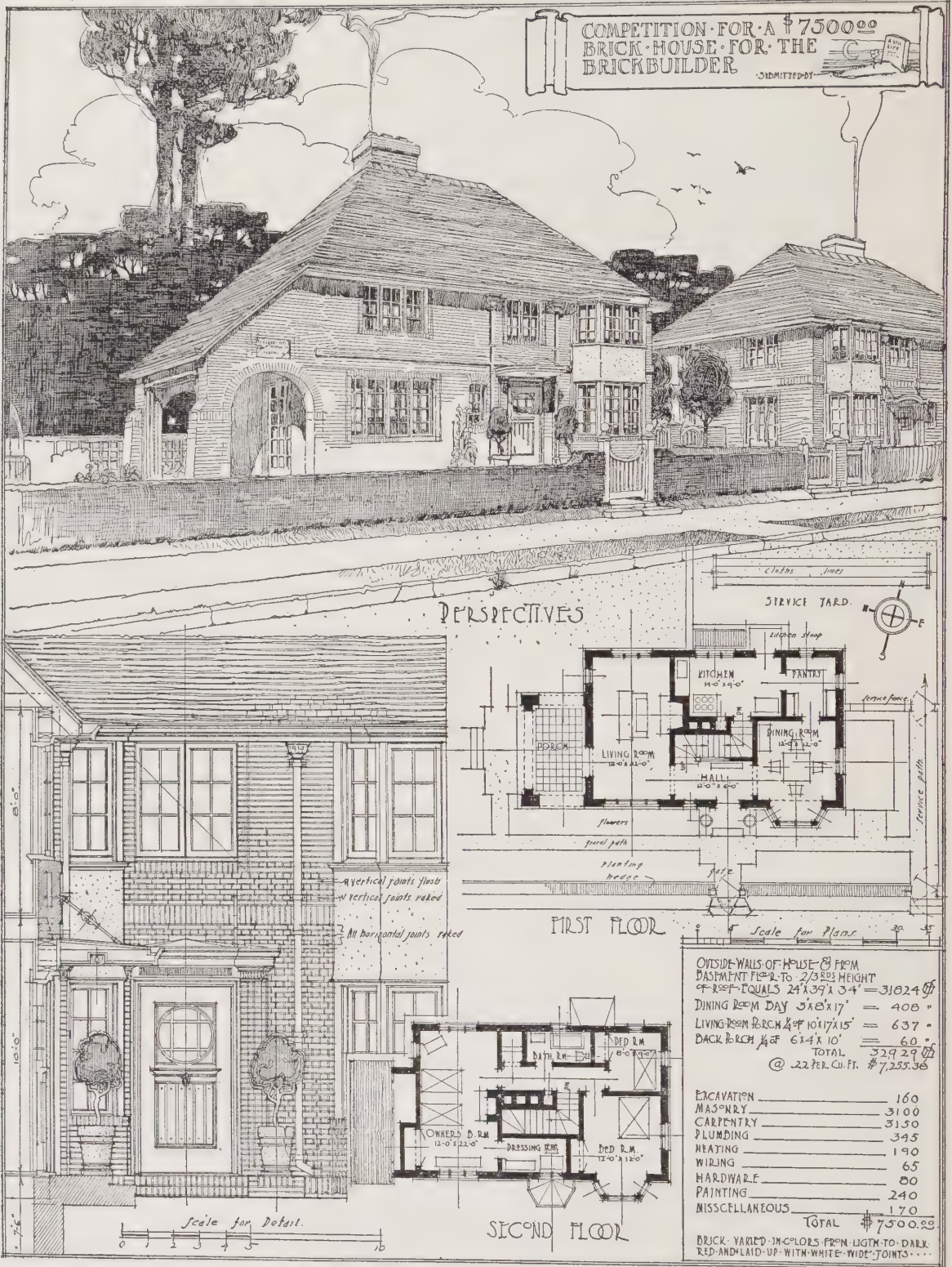
\$0.22

COST—\$7,386.06

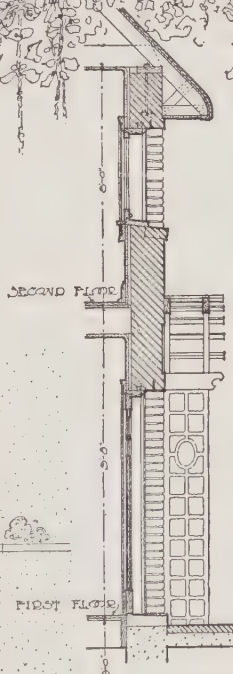
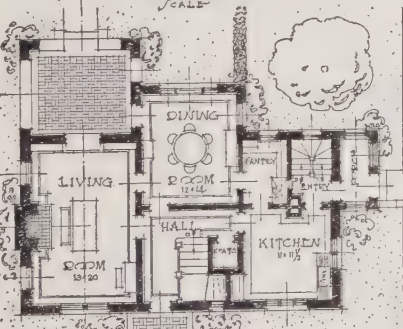
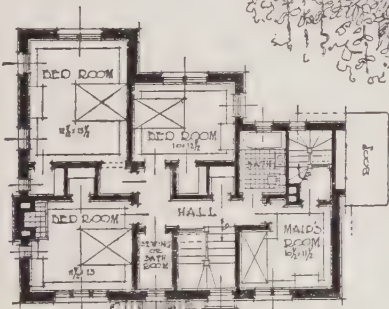


DETAIL OF ENTRANCE

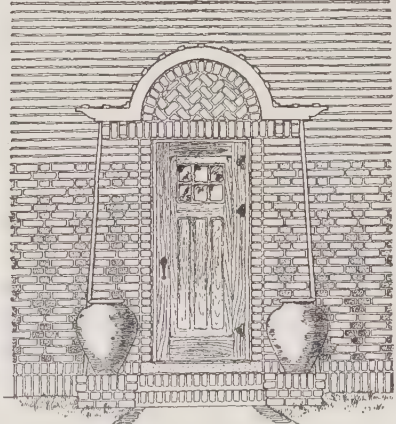
The Hy-tex House



DESIGN BY LOUIS C. ROSENBERG
169 St. Botolph Street, Boston, Mass.



NOTES • CVDAGE • ETC •	
• COST • ITEMS •	• CVDAGE •
EXCAVATING \$200	LIV. RM 6'00x14'
MASON BRICK WK 2700	13' x 22' 30" = 14,820
CARPENTRY MILL 2600	DIN. RM 6' HALL
PLASTERING 300	13' x 22' 30" = 11,102
ELECT. WIRING 200	KIT. 6'00x14'
ELEC. WIRING 150	13' x 22' 30" = 7,210
PAINTING & GLAZING 250	SIDE PORCH
HARDWARE 150	13' x 10' 14" = 700
TIN WORK 100	TOTAL AMOUNT
MISCELLANEOUS 200	33,832 CVD. FT.
TOTAL COST \$7500	COST AT 22¢ \$7443.70
• NOTES •	
A REVIEW OF THIS CHARACTER AND COST WOULD HAVE TO DEPEND MORE ON A CHARMING COLOR SCHEME AND AN INTERESTING DECOR RATHER THAN ON ORNAMENTAL DETAILS.	
BRICK TO BE HY-TEX VELVET. VARIETATED COLORS: JOINTS A CREAM GRAY. EXTERIOR WOOD TRIM A CREAM WHITE. ROOF OBTAINED A SOFT GRAYISH GREEN.	



AND ITS ALWAYS TALL WEATHER.

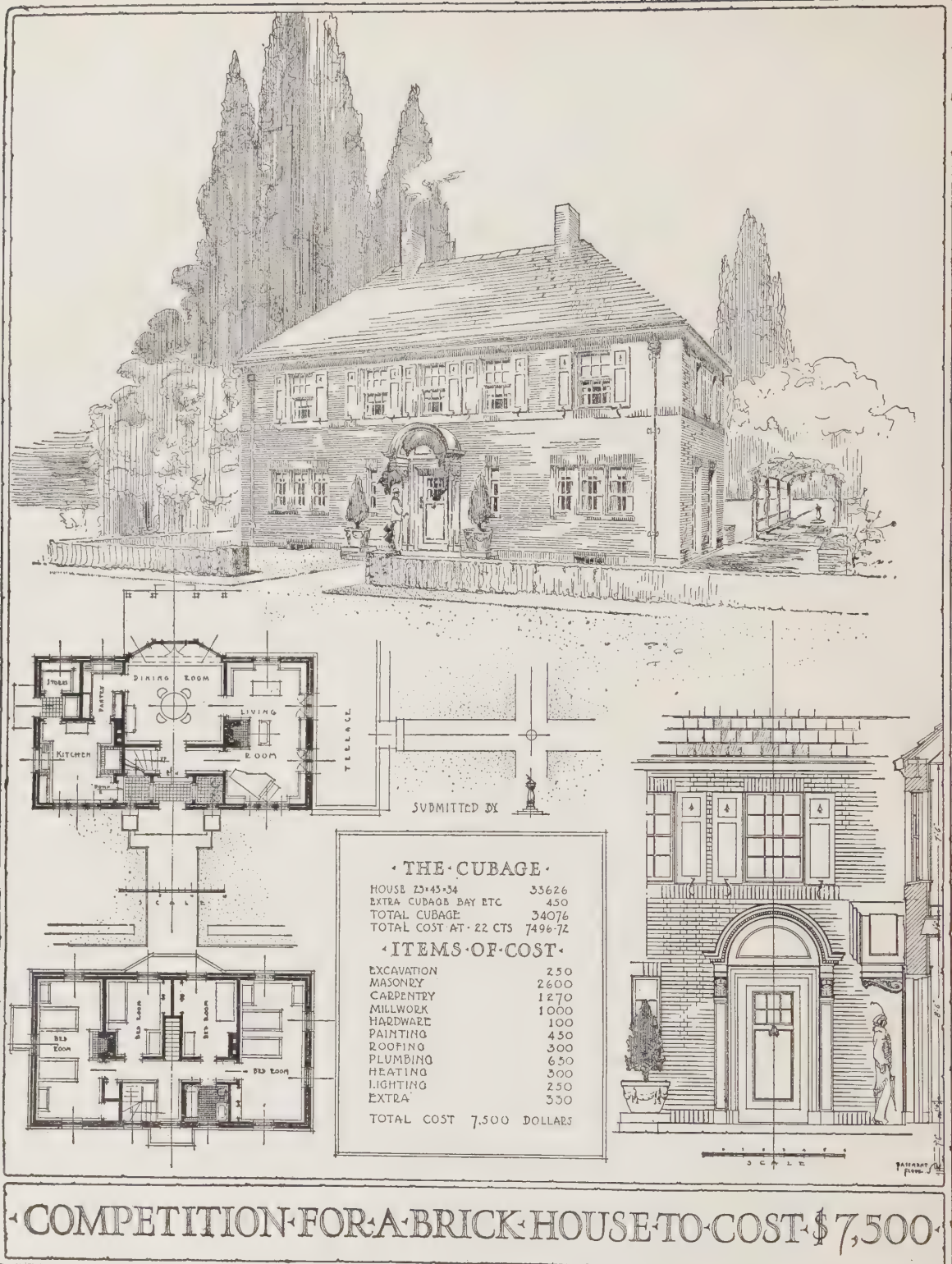


• A • \$7500 • BRICK • HOUSE •

BEHOLDING SOME THE HOUSE



The Hy-tex House



Submitted by

THE CUBAGE

HOUSE 23'x43'x34' 33626
 EXTRA CUBAGE BAY ETC 450
 TOTAL CUBAGE 34076
 TOTAL COST AT 22 CTS 7496.72

ITEMS OF COST

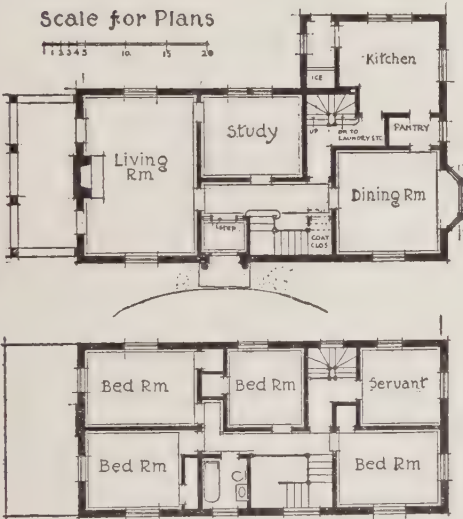
EXCAVATION	250
MASONRY	2600
CARPENTRY	1270
MILLWORK	1000
HARDWARE	100
PAINTING	450
ROOFING	300
PLUMBING	650
HEATING	500
LIGHTING	250
EXTRA	330
TOTAL COST	7,500 DOLLARS

COMPETITION FOR A BRICK HOUSE TO COST \$7,500

DESIGN BY WALTER GRANT THOMAS AND WILLIAM E. BAKER, JR.
 101 Park Avenue, New York, N. Y.



Scale for Plans



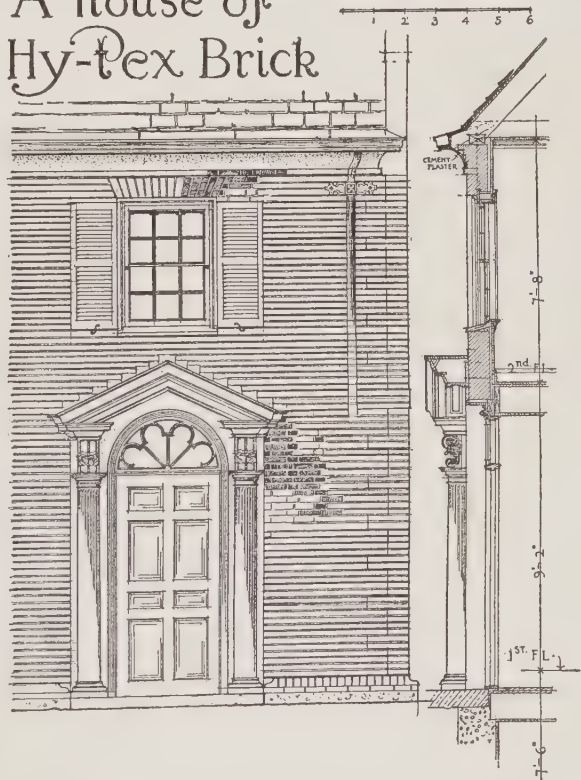
MAIN PORTION 22X46X30=30360
KITCHEN ELL 9X18X18 = 2916
PORCH $\frac{1}{4}$ OF 8X20X12= 480

TOTAL CUBE=33756
AT 22¢ PER CU-FT =

\$7,426.32

A house of Hy-tex Brick

Scale for Details



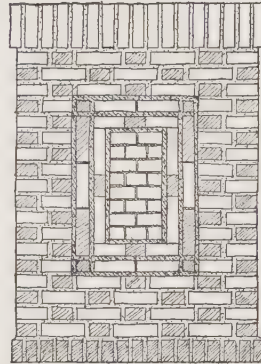
The Hy-tex House



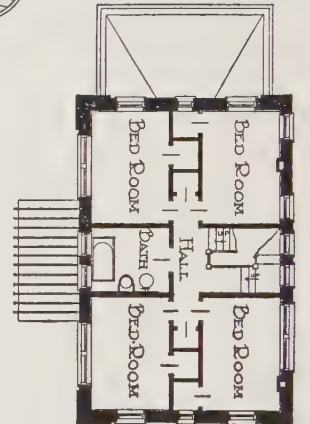
SECTION

#7500 • HYTEX • BRICK •
HOUSE • COMPETITION • OF
"THE BRICKBUILDER"

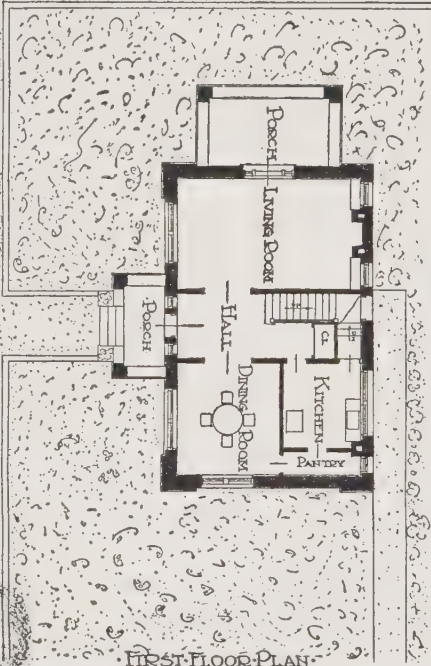
• SUBMITTED BY •



• DETAIL • OF • BRICK •



• SECOND FLOOR PLAN •



• FIRST FLOOR PLAN •



• ELEVATION •

0 5 10 15 20
• SCALE OF PLANS •

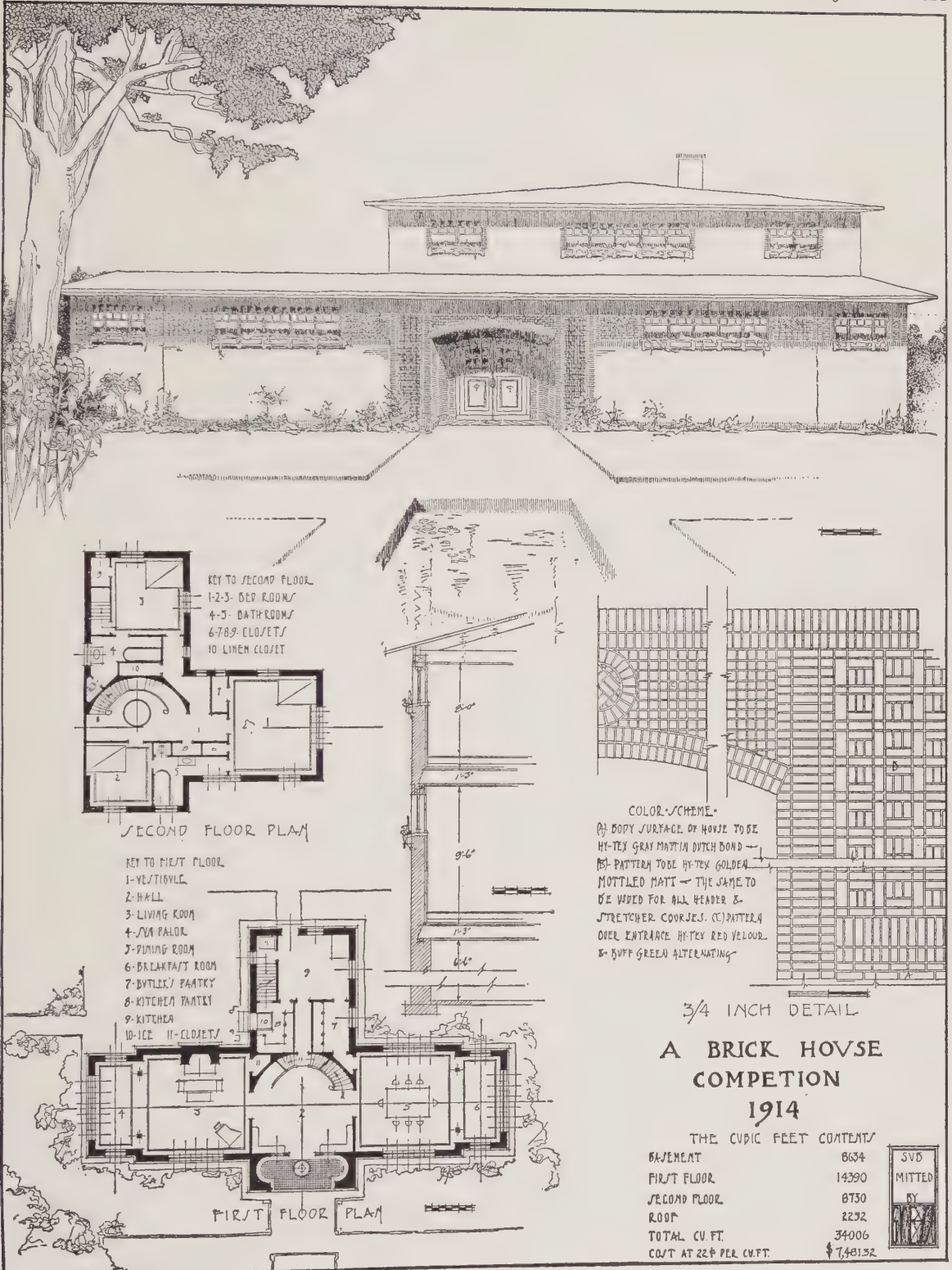
• CUBIC CONTENTS •

BASEMENT 40X26X8 $\frac{1}{2}$ • 1830.40
1ST STORY 40X26X10 $\frac{1}{2}$ • 2288.00
2ND STORY 40X26X9 $\frac{1}{2}$ • 2059.20
ATTIC 40X26X4 $\frac{1}{2}$ • 915.20
PORCH 18X10X18 $\frac{1}{2}$ • 178.20
PORCH 18X10X13 $\frac{1}{2}$ • 138.60

• TOTAL • \$7409.60

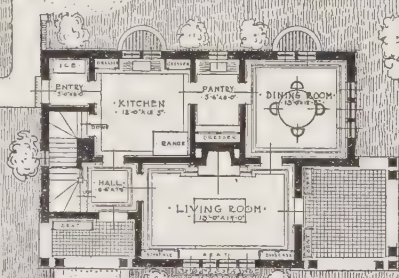
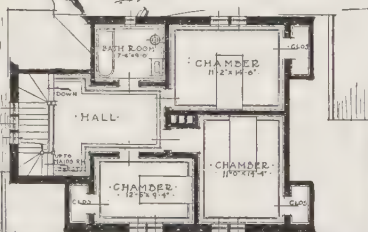
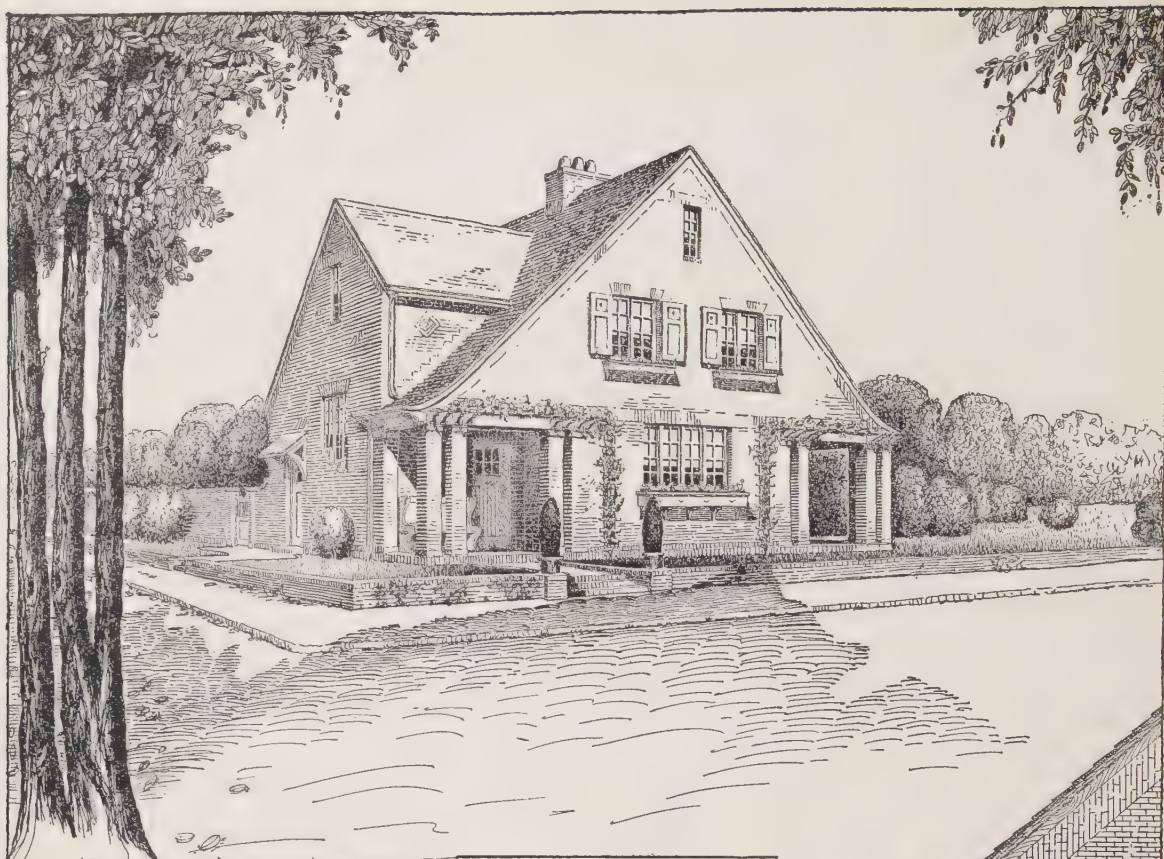
■ = RICH BROWN.
■ = DARK STEEL & GREY MATTS.
■ = DARK BROWN MORTAR JOINT. $\frac{3}{4}$ " WIDE.

DESIGN BY JACK TRAVNICEK
720 Tribune Building, Chicago, Ill.



DESIGN BY JACK FRANK
 43 West 48th Street, New York, N. Y.

The Hy-tex House



• CVPAGE •

LIVING ROOM PORTION -
21' X 14' X 35' HIGH - 10,290 CU FT

ENTRANCE HALL PORTION -
12' X 7 1/2' X 35' H - 3,150 CU FT

ENTRY, KITCH, PANTRY & D.R. PORTION -
14' X 39 1/2' X 35' H - 19,355 CU FT

LEFT PORCH -
1/4 OF 12' X 6 1/2' X 15' H - 292 CU FT

RIGHT PORCH -
1/4 OF 12' X 14' X 15' H - 630 CU FT

• TOTAL •

33,718 CU FT @ 22¢ PER CU FT

\$7,418.00 COST

• GRAPHIC SCALE FOR PLANS •



SUBMITTED BY:

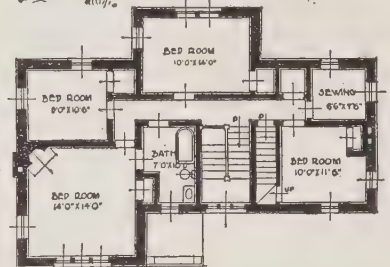
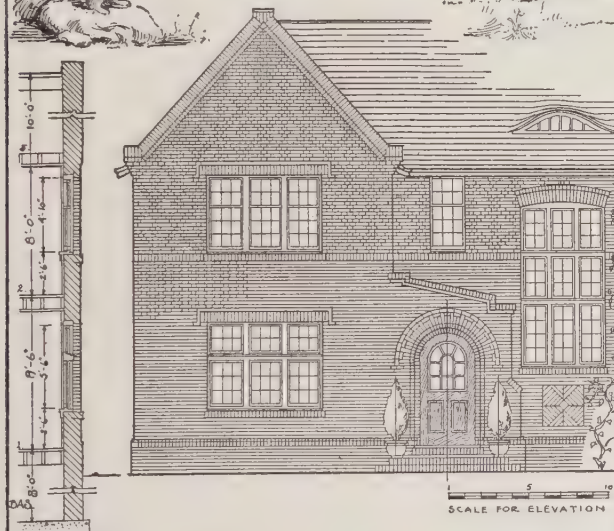


BRICK HOUSE TO COST \$7500.
B. BRICKBUILDER COMPETITION.

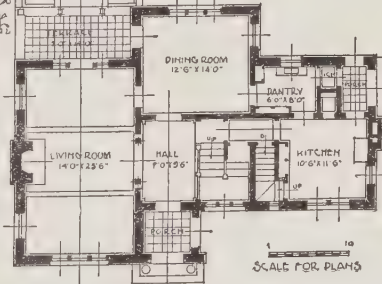
SUBMITTED



DESIGN BY JAMES M. SCHEINER
770 Linden Street, Brooklyn, N. Y.



SECOND FLOOR PLAN



FIRST FLOOR PLAN

COLOR SCHEME
COPINGS ALL TRIM,
STEPS, AND FIELD OF
PATTERN IN UPPER
STORY TO BE OF
"DARK GREY MATT."
HY-TEX BRICK.
LOWER STORY OF
FLEMISH BOND WITH
PARK HEADERS.
ALL OTHER BRICKS
WORK OF LIGHT
GREY MATT.



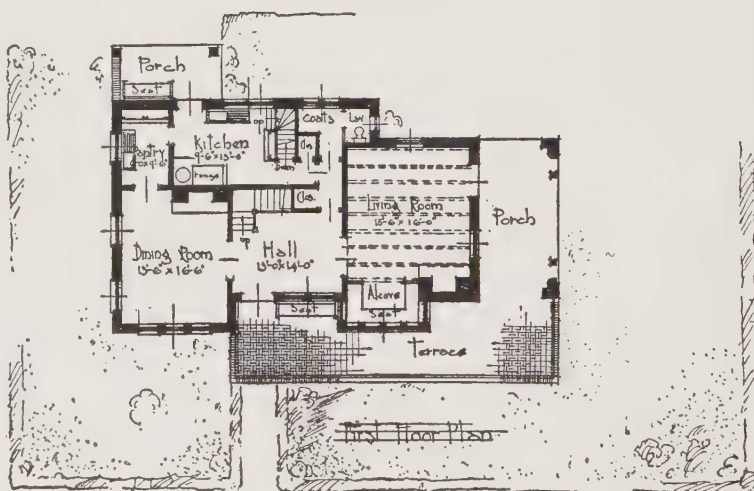
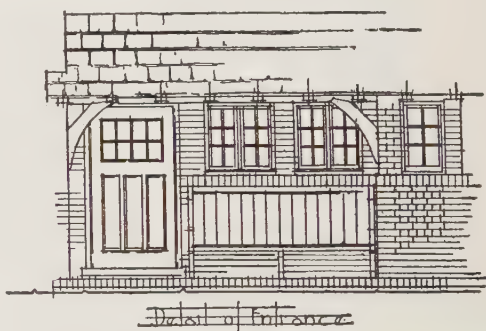
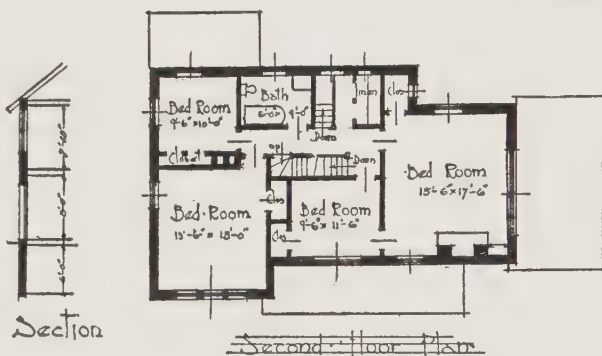
SUBMITTED BY

CUBAGE	
HEIGHT OF STORIES - CELLAR	7' 0"
MAIN FLOOR	8' 6"
SECOND FLOOR	8' 0"
1/2 DISTANCE FROM HIGHEST CORNICE TO RIDGE	6' 0"
TOTAL HEIGHT	31' 6"
AREA OF MAIN PORTION - 48'6" x 31'6" = 2723.175 CU FT	
" LIVING ROOM WING - 16'6" x 31'6" = 3276 "	
" DINING ROOM WING - 16'6" x 31'6" = 3276 "	
" PORCH	7'6" x 11'6" = 126.31 "
" STEPS	2' x 8' x 2' = 8 "
" TERRACE	15'6" x 12'4" = 48.72 "
TOTAL CUBAGE	3397.18 "
AT A COST OF 22¢ PER CU FT	\$7468.17

ITEMS OF APPROXIMATE COST	
EXCAVATING	\$ 320
BRICK	1200
PLASTERING	650
LUMBER - CARPENT	1300
MILLWORK	1150
PAINTING	400
ELECTRIC WIRING	\$ 100
HARDWARE	100
PLUMBING	600
HOT AIR HEATING	200
MISCELLANEOUS	1000

BRICK HOUSE TO COST \$7500
BRICKBUILDER COMPETITION

The Hy-tex House



COMPETITION FOR A SEVENTY-FIVE HUNDRED DOLLAR BRICK HOUSE

Basement Area	1173 sq. ft.
First Floor Area	1173 sq. ft.
Second Floor Area	1153 sq. ft.
Porch Area	650 sq. ft.
Cubage Basement to Second Floor level	16768 cu. ft.
Cubage Second Floor to 3/4 of Roof	13596 cu. ft.
1/4 Porch Cubage	1463 cu. ft.
Total Cubage	33827 cu. ft.
At 22¢ cu. ft.	\$7,441.94
Alternate header and stretcher courses dark red Hy-tex Brick. Duff Hy-tex brick for fireplaces	

Floor Plans 1" = 10'-0"

Detail 1" = 1'-0"

SUBMITTED BY



DESIGN BY ANTON A. LETZGUS
1218 Chestnut Street, Philadelphia, Pa.

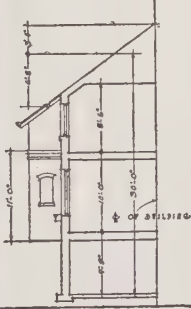
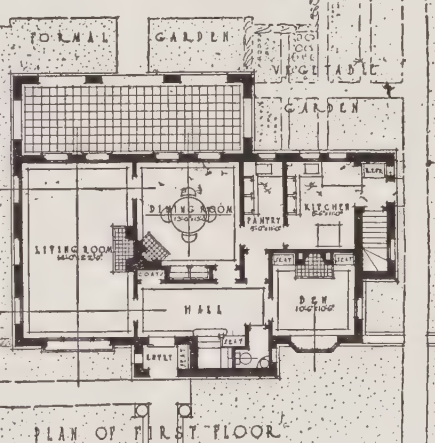
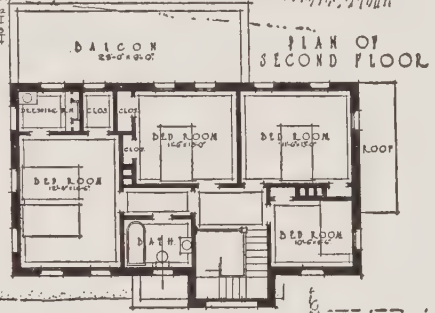


COLOR SCHEME
 BOXHALL HY-TEX BRICK OF VARIOUS SHADES
 OF DARK BROWNISH RED, LAID PROMISCUOUSLY
 FLEMISH BOND, FLUSH JOINTS 1/2 INCH WIDE

SCALE FOR PLANS & SECTION 1" = 8'-0"
 SCALE FOR DETAIL 1" = 1'-0"

CUBIC CONTENTS	
CUBIC CONTENTS OF MAIN BUILDING - 44'x24'x30'+4'x11'x30'	33000
FRONT AND REAR PORCHES 20'x10'x10'	902
KITCHEN ADDITION 10'x10'x10'	130
TOTAL CUBIC CONTENTS	34082
TOTAL COST 34082 x 0.22 =	\$ 7497

ITEMS OF COST	
EXCAVATING	175
BRICKWORK	2360
PLASTERING	485
LUMBER AND CARPENTRY	1510
MILLWORK	1100
PAINTING	220
HARDWARE	100
ELECTRIC WIRING	200
PLUMBING	450
HEATING	300
MISCELLANEOUS	600
TOTAL COST	\$ 7500

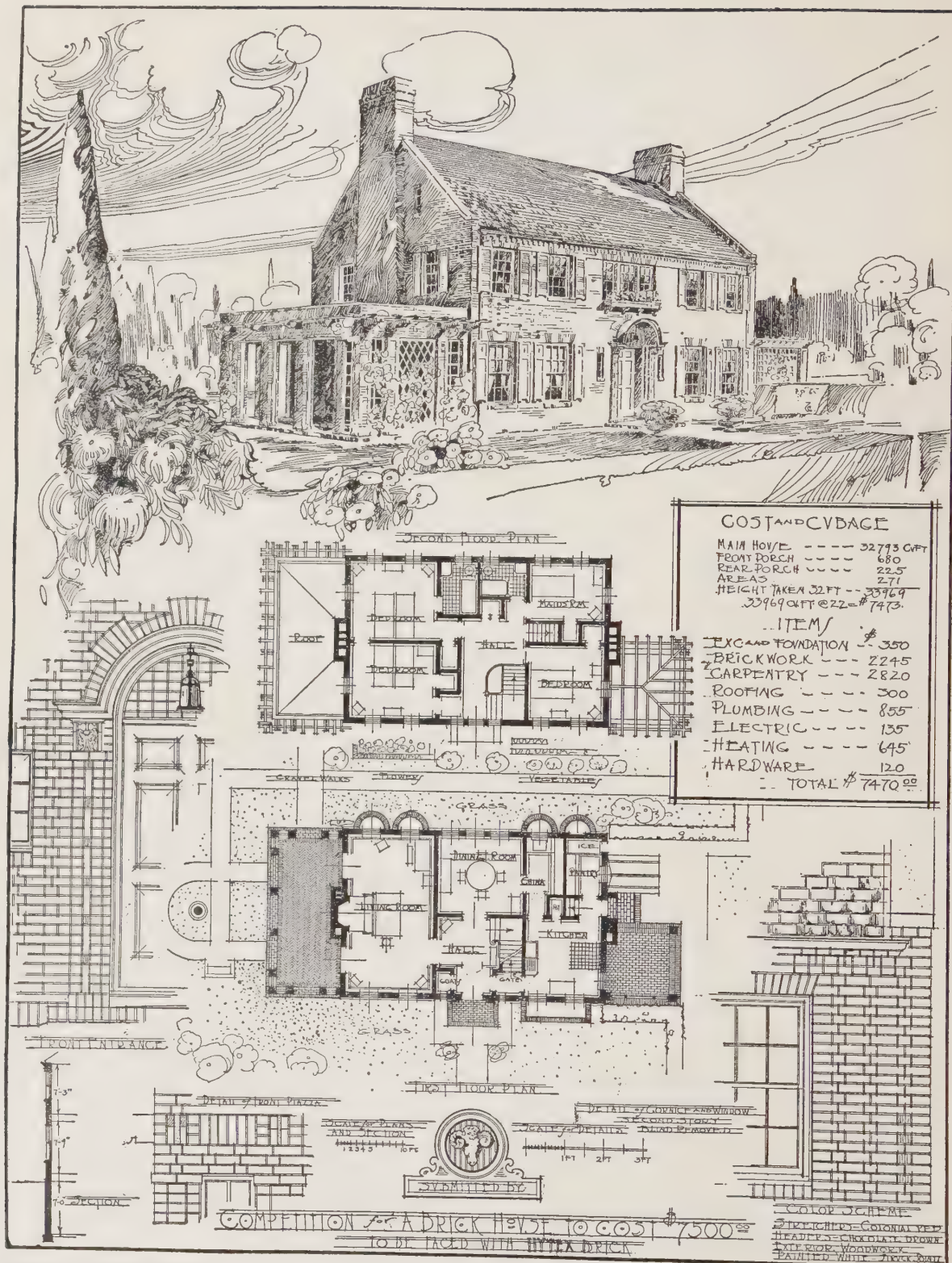


SUBMITTED BY

**A BRICK HOUSE TO COST 7500 DOLLARS
 TO BE FACED WITH HY-TEX BRICK.**

**BRICKBUILDER
 COMPETITION
 FEBRUARY 1914**

The Hy-tex House



DESIGN BY P. DONALD HORGAN
 14 Kilby Street, Boston, Mass.

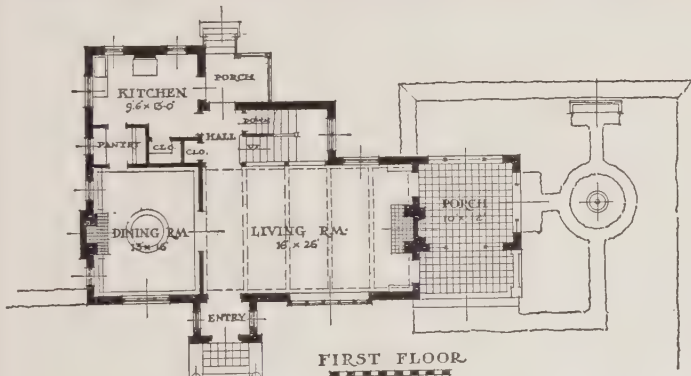


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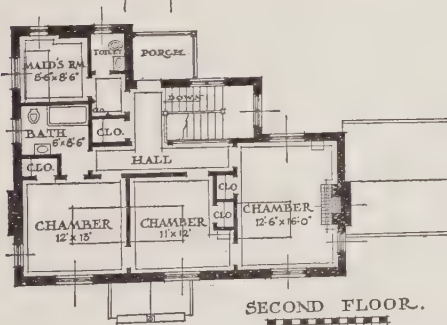


COMPETITION FOR A BRICK HOUSE TO COST
SEVEN THOUSAND FIVE HUNDRED DOLLARS.

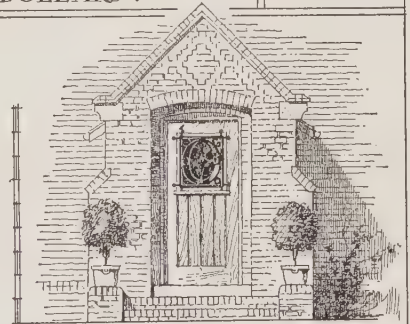
BRICK BUILDER
COMPETITION



FIRST FLOOR



SECOND FLOOR.



EXTERIOR WALLS FINISHED WITH WIRE CUT MAT FINISH VITRIFIED RED BRICK (KILN RUN). ALL SHADES MIXED HAPHAZARD. GARDEN WALL BOND. DIAPER PATTERN LAID WITH ORDINARY HARD RED BRICK WITH BLACK HEADS SCATTERED.



CUBIC CONTENTS			
MAIN BLDG.	41'6" x 18' x 32' =	23 904	PORCHES
REAR BLDG.	15' x 14'6" x 28' =	6 076	13' x 12' x 12' = 1872
STAIRS	7' x 16' x 28' =	3 136	6' x 8' x 10' = 480
VESTIBULE	5' x 8' x 10' =	400	2352 ÷ 4 = 538
TOTAL CUBAGE	34 054 @ 22' 7 1/2" =	\$7500.00	

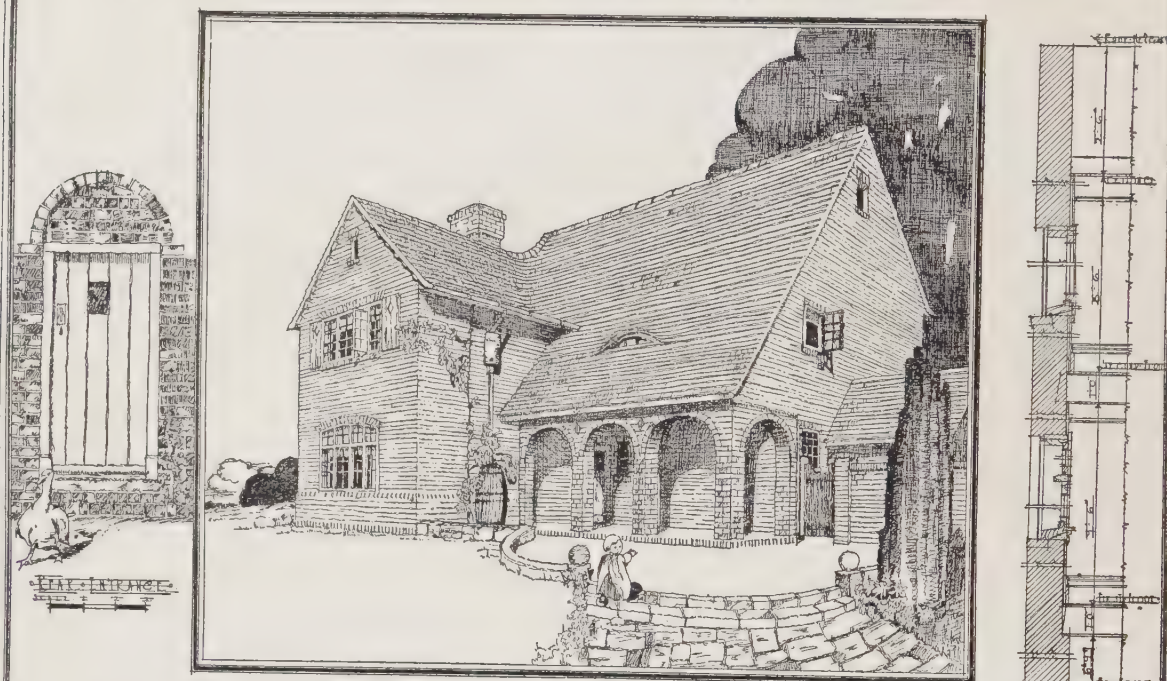
ESTIMATE OF LABOR & MATERIALS

EXCAVATION	\$ 90.00	PLASTER	\$350.00
CONCRETE	450.00	PAINTING & GLAZ.	325.00
BRICKWORK	1500.00	HARDWARE	75.00
STEEL	150.00	PLUMBING	610.00
SHEET METAL	100.00	ELECTRIC WORK	100.00
SLATE	425.00	GRANITOID	75.00
LUMBER	550.00	MISCELLANEOUS	150.00
MILL & STAIRS	950.00	CONTRACTOR'S PROFIT	600.00
LABOR	1000.00	TOTAL COST	\$7500.00

DESIGN BY E. L. PLEITSCH AND D. STEPHEN, JR.
408 Board of Education Building, St. Louis, Mo.

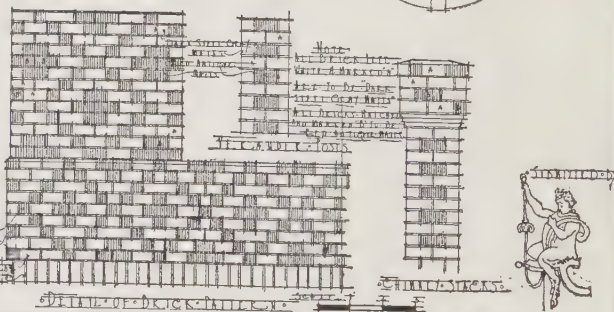
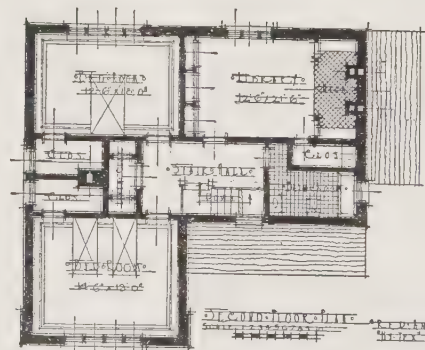
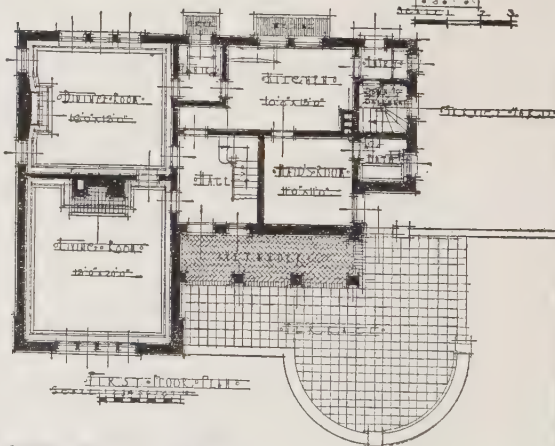
The Hy-tex House

HYTEX + BRICK + HOUSE E. COST \$7500.00

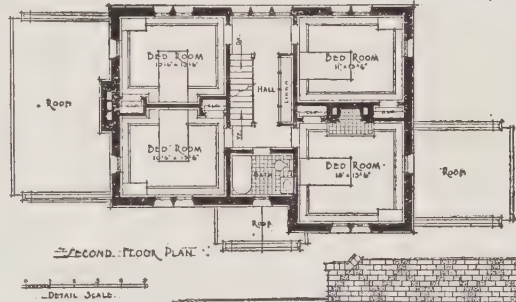
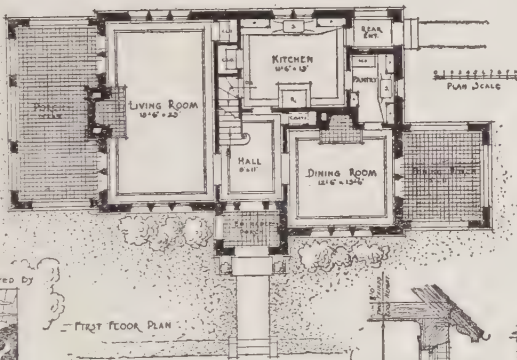


• C.V.D.A.G.T. •

• DESTROY •	22'0" x 23'6" x 6'4" = 3490
• MAIN PORTION •	22'0" x 38'0" = 760
• LIVING ROOM •	22'0" x 12'4" = 528
	1288.50 M x 22'6" = 28980
• FRONT PORCH •	22'0" x 6'0" x 9'0" x 8" = 297
• SIDE WING •	6'0" x 14'0" x 11'0" = 1297
	24025
	34071.00 x 22'6" = 7984.62 COST



DESIGN BY VINCENT BUCLEY
197 Coleridge Street, San Francisco, Cal.



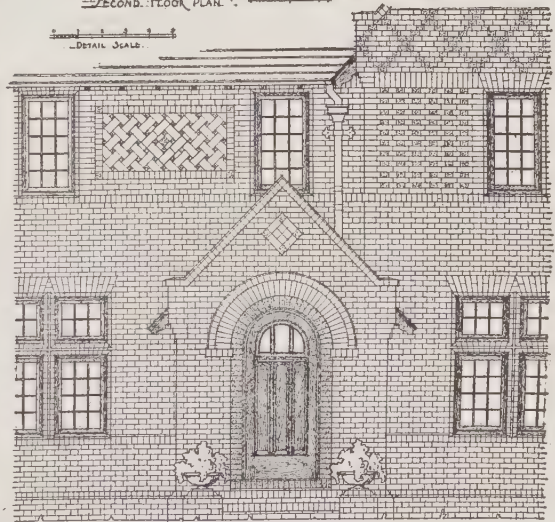
BRICKBUILDER COMPETITION FOR A BRICK HOUSE

CUBICAL CONTENTS

MAIN BUILDING 25' x 35' x 33' = 31350
 DINING RM. EXTER. 3' x 12' x 31' = 1142
 LIVING RM. PORCH 24' x 11' x 34' = 726
 DINING RM. PORCH 13' x 11' x 34' = 394
 ENTRANCE PORCH 3' x 6' x 9' x 34' = 132
 TOTAL CUBIC FEET 34049
 TOTAL COST AT 22¢ = \$7490.78

ITEMS OF COST

EXCAVATION \$100
 MASONRY \$3600
 CARPENTRY \$2150
 SLATE ROOF \$275
 HARDWARE \$100
 PLUMBING \$400
 HEATING \$275
 ELECTRIC \$140
 PAINTING \$310
 MISC. EXP. \$100
 TOTAL COST \$7500



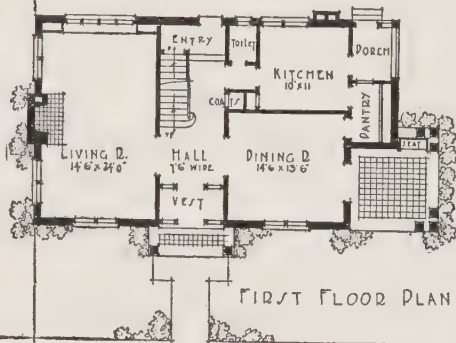
The Hy-tex House

BRICK BUILDER COMPETITION • A BRICK HOUSE TO COST \$7500

SUBMITTED BY ①

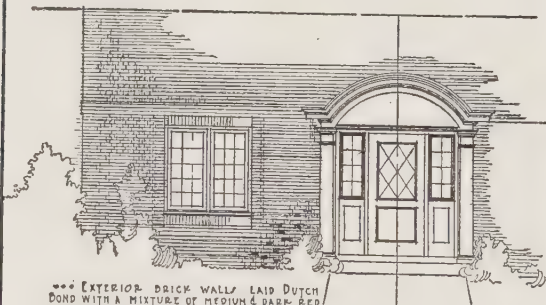


PERSPECTIVE



FIRST FLOOR PLAN

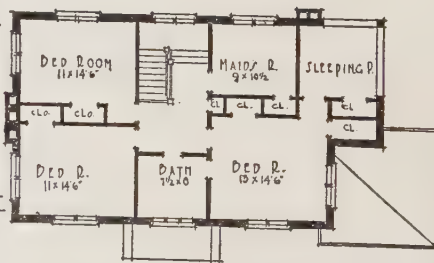
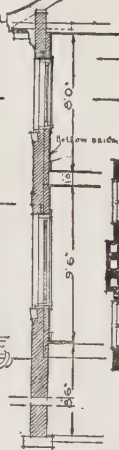
ITEMS OF COST	
EXCAVATIONS	200.00
BRICKWORK	2500.00
CARPENTRY & MILL WORK	2500.00
PLASTERING	350.00
PAINTING & GLAZING	350.00
HEATING & PLUMBING	600.00
WIRING	100.00
SHEET METAL	150.00
CONTRACTOR'S PROFIT	100.00
TOTAL	7450.00
CUDAGE	
MAIN HOUSE	395 x 26 x 30 30810'
PANTRY WING	6 x 16 x 26 2496
PORCHES	167 x 13 x 1/4 507
TOTAL	33813'-A
PRICE PER FOOT 22 X A - EQUAL	7438 COST



*** EXTERIOR BRICK WALLS LAID DUTCH BOND WITH A MIXTURE OF MEDIUM & DARK RED BRICK USED AS THEY CAME TO HAND AND *** WITH TRIM & CORNERS OF DARK REDS AS SHOWN

DETAIL AND WALL SECTION

SCALE FOR DETAILS 1" = 1'-0"



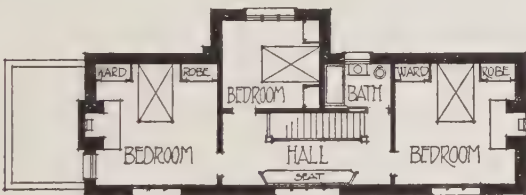
• SECOND FLOOR PLAN •

SCALE FOR PLANS 1" = 1'-0"

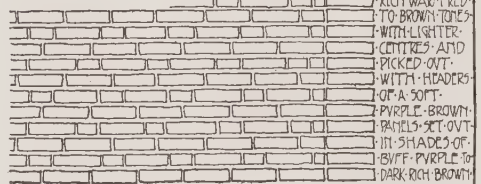
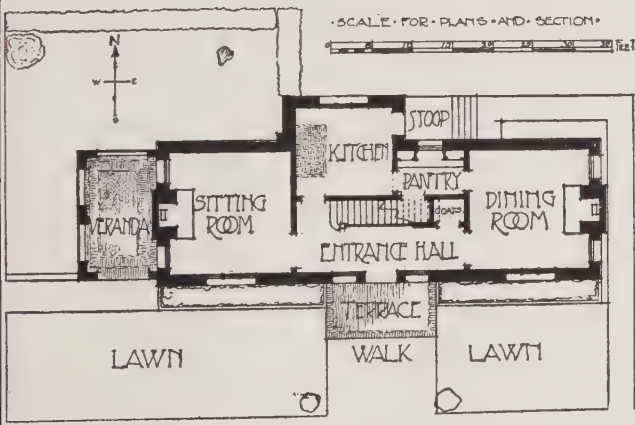
DESIGN BY WILLARD OSLER
341 Trenton Street, Indianapolis, Ind.



THE BRICKBUILDER COMPETITION FOR A HY-TEX BRICK HOUSE



THIS DESIGN
SUBMITTED BY
H. T. BRICQUE
ARCHITECT
PRESSVILLE



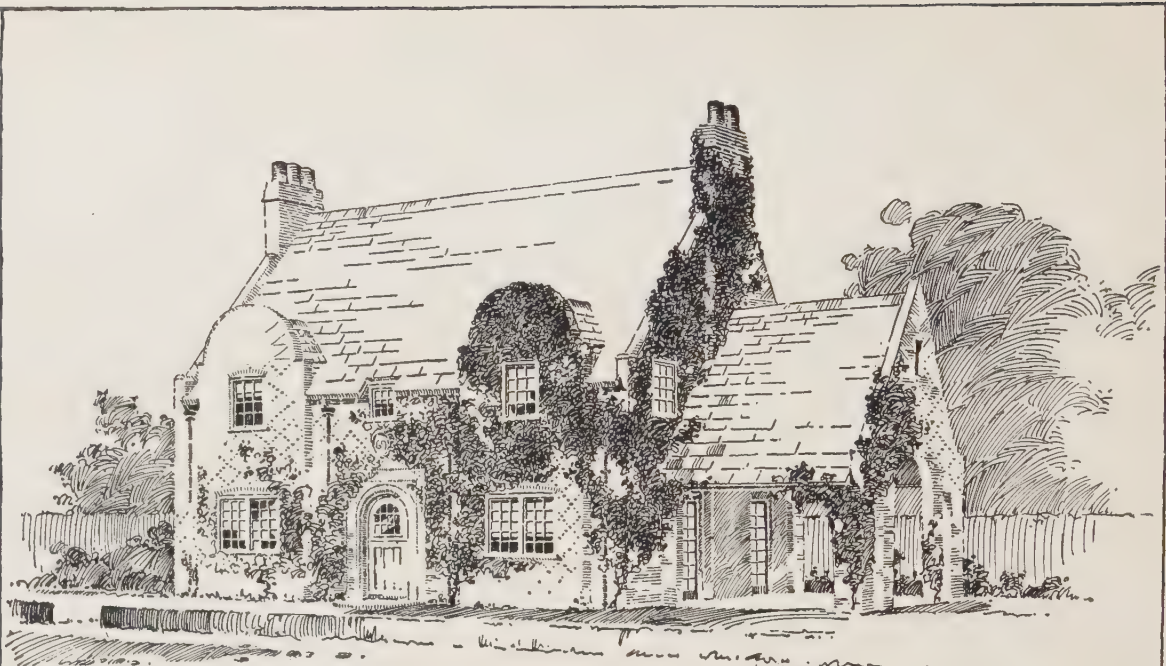
BRICKS USED ARE
ST. LOUIS PLANT
OF GENERALLY A
RICH WARM RED-
TO-BROWN TONES
WITH LIGHTER
CENTRES AND
PICKED OUT
WITH HEADERS
OF A SORT
PURPLE-BROWN
PANELS SET OUT
IN SHADES OF
BUFF PURPLE TO
DARK RICH BROWN

CUBIC ESTIMATE OF COST	
MAIN BUILDING	54-6-176-32-3 = 30758.6 C.F.
	14-9-5-632-3 = 2604.2 "
PORCH	1/2 x 9-9-16-0-4-0 = 54.6 "
STOOP	1/2 x 6-0-5-6-3-0 = 29 "
TERRACE	1/2 x 13-0-7-0-2-0 = 45 "
TOTAL	33982.8 "

AT RATE OF 22 CTS PER FOOT
COST IS \$7476.21

DESIGN BY CYRIL J. BREWSTER
2329 Van Ness Avenue, San Francisco, Cal.

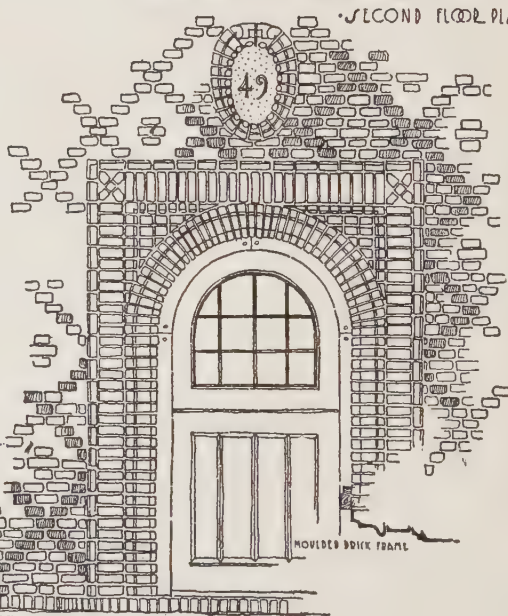
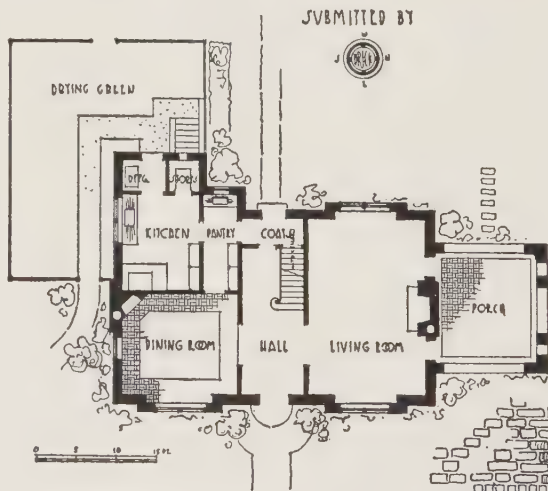
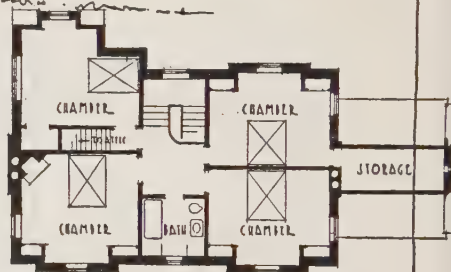
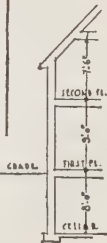
The Hy-tex House



BRICKBUILDER COMPETITION
FOR A BRICK HOUSE.


CUBIC CONTENTS 33760 CUBIC FEET
AT 22 CENTS PER FOOT - \$ 7427.20

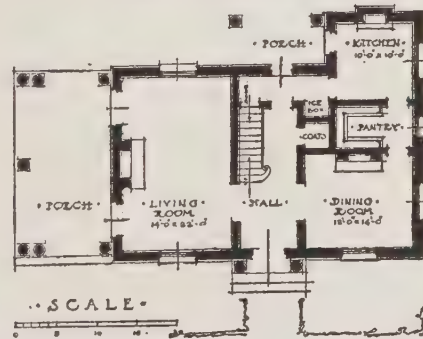
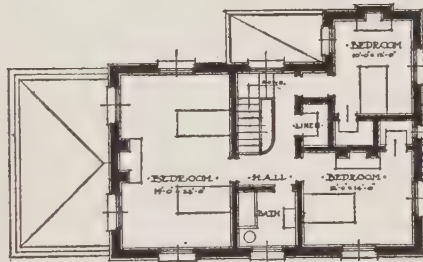
EXCAVATING \$ 150.00	PAINTING 150.00
MASONRY 3527.20	HEATING 250.00
PLASTERING 350.00	PLUMBING 400.00
CARPENTRY 2200.00	ELECTRIC 150.00
ROOFING 250.00	TOTAL COST \$ 7427.00



DESIGN BY GEORGE A. LICHT
4 East 39th Street, New York, N. Y.



• COMPETITION •
• FOR A BRICK •
• HOUSE TO COST •
• \$7500. • BY 



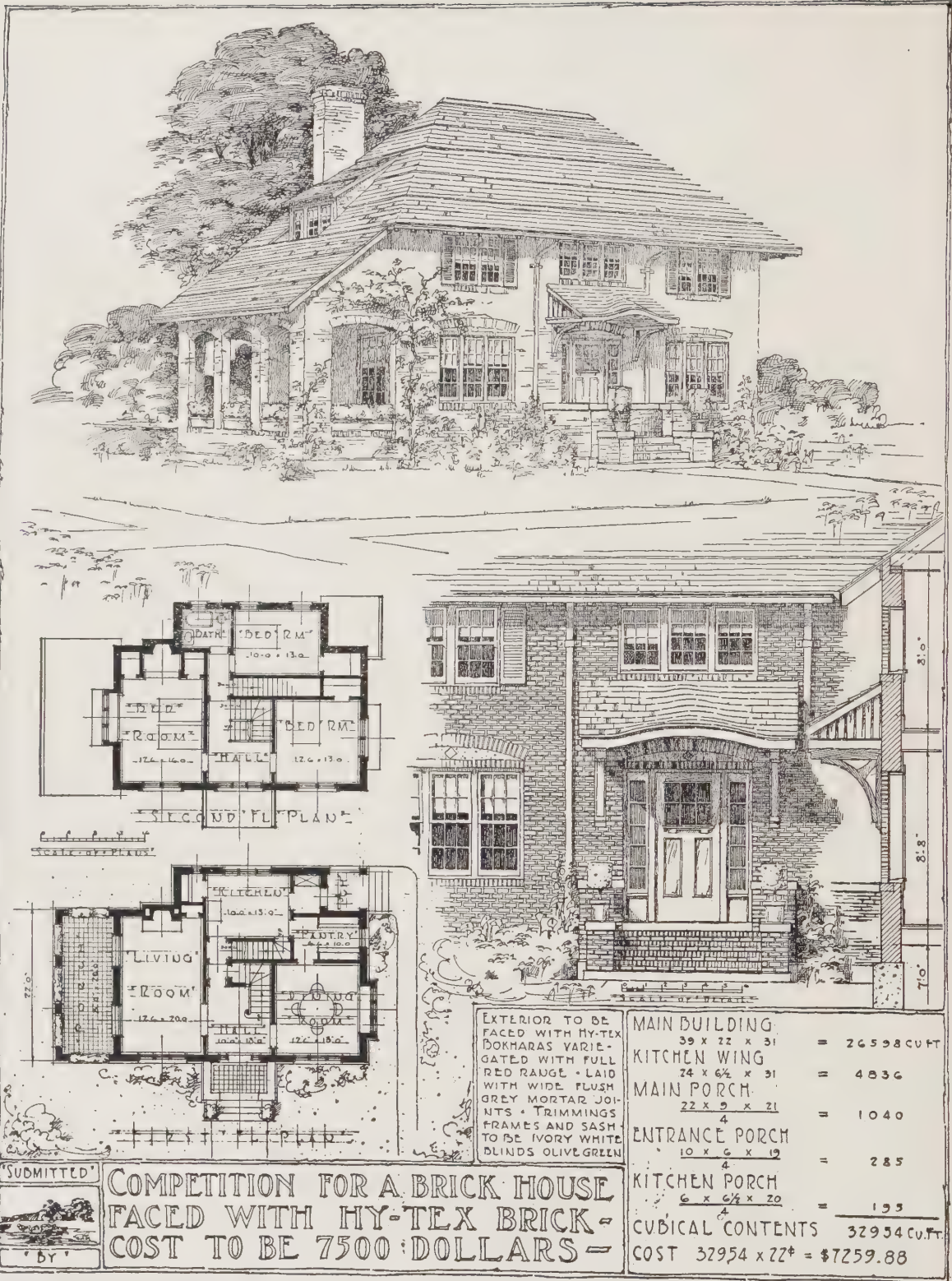
• CUBAGE •

AREA 996¹/₂ • HEIGHT 33'-0"
32868 CUBIC FT. AT 22'
COST OF HOUSE 7230.96
PORCHES AREA 336¹/₂ BY 12'-0"
4032 CUBIC FT. 25% = 1008
1008 CUBIC FEET AT 22'
COST OF PORCHES 221.76
TOTAL \$ 7452.72

COST

EXCAVATING 320 • ELEC. WIRING 90
BRICKWORK 2050 • PLUMBING 800
PLASTERING 300 • HARDWARE 310
CARPENTRY 1500 • HEATING 250
MILLWORK 1200 • MISCELLANEOUS 380
PAINTING 300 TOTAL \$7500.00.

The Hy-tex House



DESIGN BY ARTHUR C. TRANTMAN
742 Seneca Street, Buffalo, N. Y.

The Function of An Architect

By AYMAR EMBURY II

THERE is certainly no profession, and perhaps no trade, about whose usefulness there exists a wider misapprehension than the profession of architecture. There are, of course, many incompetent architects just as there are many incompetent lawyers and doctors, but the results of the architect's incompetence may be plainly read in his buildings while the incompetence of the other two professions are hidden in the mysteries of the law or of the human body.

A reason for the occasional prejudice against the architect as a necessary evil is misapprehension regarding his true function; and this article is intended to make clear some features about which there exists a doubt.

In the first place, the architect is not a contractor; he does not actually build houses nor hire others to build them for him. His duties are: First, to design the building, make the necessary drawings and write the specifications from which the house is to be built; secondly, to superintend the building; that is, to see that the materials described in the specifications are placed in the positions shown on the drawings. There are, beside these two principal duties of the architect, certain others of a secondary nature which are also necessary during the process of construction.

It is the architect's duty to prepare the necessary contracts in behalf of the owner; and his legal knowledge must be sufficient to safeguard the owner's interests without making the contract unfair to the builder, since a contract that is not fair to all parties concerned will not be upheld in law. He must certify to the amounts due the contractor by the owner as the work proceeds and this means that he must be conversant with the prices of materials and the cost of labor, since over-certification or under-certification may, and often does, result in legal controversy. In addition to these duties the architect is almost always depended upon to act, at least in an advisory capacity, as landscape architect, showing how the house shall be placed upon the lot with the best relation to roads, trees and other surroundings. The direction of paths and the location of shrubbery is very often done under the architect's supervision,

as it ought always to be. The selection of materials and colors for the decoration of the interiors should be influenced by his advice. It will be seen, then, that the architect's usefulness covers a very considerable field outside his fixed and definite functions.

LET us now consider that part of the work which is more strictly an architect's business and with special reference to the sort of work which he would perform in building one of the houses illustrated in this book. In the first place, the designs here shown are only what are known as sketch designs; that is, a contractor could not build a house from them and secure anything like the effects obtained in the designs without having what are known as "working" drawings, which should be prepared by an architect. Before giving further consideration to drawings and specifications, let us treat of the preliminary steps that need to be taken by the architect in serving the interests of the client who comes to him for a house. It is necessary at first to ascertain approximately the amount the owner wishes to spend on his house and what accommodations he will require. Most of the trouble that develops between architect and client is traceable in nine cases out of ten to the first interview, and the fault is at times chargeable to the architect, at times to the owner—and very often to both. If every owner came to his architect wanting only such a house as could be built for the sum which he has named there would be little or no difficulty, but in too many instances the owner wants just a little bit more than his money will pay for, and the architect's hope is that by some happy slant of fortune he may be able to accomplish what he knows to be well-nigh impossible. It is too often the case that the architect fails to warn his client with sufficient emphasis that he is asking too much. It very often happens that the house wanted at a given cost is possible, if the cheaper materials and simplest form of interior finish, painting and plumbing, are used; and the architect tells his client that the house can be built in this simple manner for the stipulated sum only to find that the word "simple" means one thing to the owner and another to himself. Little words like "simple" and "inexpensive" have a wide variety of meaning. They are comparative and not positive and are liable to open a wide field for controversy. Consequently greater explicitness at the very first interview on the part of both the owner and the architect would

result in harmonious relations in most of the cases where trouble now arises.

An owner really should give all his instructions to the architect in writing, in order that his own interests may at all times be protected. This arrangement is equally advantageous to the architect. A record of instructions given over the telephone should be carefully noted by both parties and confirmed in writing.

PROBABLY most, if not all, of the houses illustrated in this book could be built, and rather well, for the limit of cost given in the competition program—\$7500—in districts where brick and labor are not expensive. I believe, however, that if it were contemplated to build them within twenty miles of the cities of New York or Philadelphia it would be necessary to forego oak floors and tiled bath rooms in order to keep the cost within the limit set. In scaling down the cost of a house, the architect's real problem is to preserve to the owner those features which he considers essential in design and cut out those materials which are not absolutely necessary. It is a well known fact that many clients give their architects as a fixed limit of cost an amount varying from ten to fifty per cent below what they actually expect to spend, in the belief that the architect consciously endeavors to make him spend more than he wants, whereas in fact the opposite is the case. It is a very natural desire for an architect to do all that a client demands, and his eagerness to obtain and hold a commission frequently leads him to promise more than his best judgment tells him can be given. This is manifestly unfair and unnecessary; for, by tactful explanation and by comparison of the proposed house with others of the same size actually built, it can be shown any reasonable client just about what can be built for the amount to be expended.

Now as to the sketches themselves; a simple pencil drawing which may not have taken half an hour to make often represents the result of a week's study of the problem in an endeavor to secure a perfect plan or an unusually attractive elevation, not on paper alone but when built. After these sketches are shown to a client, he may want certain changes made in the plans; he may not entirely like the exterior and suggest certain changes, and these the architect must accomplish without impairing his general scheme or injuring the appearance of the house. Even trivial changes of this kind are

sometimes very difficult to make. In one case which came under my observation, an owner wanted an additional closet in his own bedroom, and his architect chased that closet around from room to room for three days trying to find some place where it could be put, without making a bump in one corner of some room. He finally decided to make an entirely new plan rather than spoil the house in this comparatively unimportant respect.

When the sketches have been pretty well decided on, the architect proceeds with the working drawings and specifications. These drawings—which are sent out for estimate—are of the several floors at a scale of one quarter inch to the foot, with elevations of the four sides and sometimes a cross section through the house at the same scale, and not infrequently several sheets of larger scale detailed drawings of wainscot, mantels, doorways and such things, which cannot be fully explained by small drawings or by the specifications. These drawings are the most expensive things and the most important that have to be done, since they must be very exact. All dimensions of the wall thickness, the room sizes, and the positions of windows and doors, must be given; roof slopes must be determined and very careful consideration paid, not so much to the drawings themselves, as to the appearance of the building when executed.

The working drawings are deceptive to the client, since they show in only two dimensions what will be executed in three; and lack of comprehension of working drawings is, next to the question of cost, the commonest source of trouble between the owner and the architect. People who are capable of reading plans find practically no extras involved in the construction of the building; they know in advance how things are going to look with somewhat the certainty of an architect. But people who know nothing about reading plans find that rooms which on paper look big enough, in reality are small, and that arrangements of windows which on plan appear to suit their furniture, when built, do not give them the space they require; and changes need to be made which involve extras for which they blame the architect and not themselves.

With the working drawings goes the specification, and the average specification for the construction of a house, such as illustrated in this book, is a little document of from fifteen to twenty thousand words, not one of which can be omitted without giving a contractor a loophole to escape from his just obligations. In these specifications

must be incorporated every instruction that the owner has given to the architect about the sort of floors and the color of paint, the types of bath tubs, the positions of electric light switches, the materials of which the house is to be built, the kind of kitchen range needed, where mirrors and towel bars are to be placed, and everything of that sort; and an architect must be very alert not to forget what may turn out to be the most desired thing in the house.

Working or scale drawings are made either on tracing cloth or tracing paper. From these, blue prints are made in numbers to supply contractors who are to give an estimate upon the work.

It is inadvisable, in fact unfair, to ask a contractor to bid on work when the owner feels that he will not be acceptable even though the lowest bidder. It is best for all concerned that only those contractors shall be invited to bid who can safely be entrusted to perform the work at the lowest figure submitted.

After estimates have been received, if the lowest one amounts to more than the owner feels himself able to pay, the architect must then proceed with the most difficult and disagreeable part of his entire work, and that is the cutting out of items which can, or must, be spared without impairing either the usefulness of the house or its appearance. In many cases, in fact in the majority of cases, estimates will not exceed the amount the owner is willing to spend and contracts may be signed at once.

Contracts are generally made out in triplicate. One set with specifications is filed with the county clerk to protect the owner against liens which may lie against him if this legal procedure is not followed; one set is kept for the client; and the third is for the contractor. The architect then makes the full size detail drawings, or in some cases details at one-quarter full size, of all parts of the building which require special construction; and, while these details are not as expensive as the contract drawings, they nevertheless are very tedious and costly to make. Probably in a house of the size of those in this book, there would be issued about ten drawings for estimate and about fifteen full size details. A draughtsman would average three days work on each of these. If we assume that he gets four dollars a day (a reasonable price), these drawings would cost the architect about three hundred dollars; and this does not include overhead expenses, such as rent, stenographer, office boy, light, blue printing, materials and such things—nor any allowance for bad debts.

If the architect is to superintend the construction of the house—in some cases he does and in others he doesn't, depending entirely upon the agreement made with the client—he or his superintendent of works will make at least weekly visits to see that the work is being carried out according to the drawings and specifications. If during these visits he finds that bad work or materials are being employed, it is his duty to order the work done over again in a proper manner. There is usually a clause in specifications which requires that the contractor shall make good any defective work that may become apparent within a year after the completion of the house. It is customary for an architect to visit the house several times after it is occupied for the purpose of ascertaining if there are any defects which are attributable to bad workmanship, and if there are to insist that the contractor do the necessary repairing.

THE foregoing gives a fairly complete idea of what the architect does for his money, and may also show a prospective home builder that the money so spent is well earned. There are, however, two or three other points which should be touched on. First, it should be understood that the architect does not assume financial responsibility either for the cost of a house or for the mistakes made during its construction, unless these are due to negligence on his part. The owner in accepting the plans and specifications, which he does either before or when signing the contract, should see to it that everything that he wants is in the plans and specifications, since his acceptance of them will be held by any court to be proof that the architect has faithfully performed his duty. If anything is omitted from the specifications that the owner has told the architect he wants and has to be put in afterwards as an extra, it does not follow that the owner is paying twice for this item; for, if it had been in the original specifications, the original contract price would have been larger, since contractors make a list of every item to be done, price them, foot the total, and add a percentage or lump sum as a profit. The second point of extreme importance should be the realization by the owner that the architect's services are worth all he charges for them and often prove an actual saving to the owner.

If one were to go direct to a contractor with a book such as this, containing as it does very many beautiful designs, he would find many who would say: "I will build the house you like for so many

dollars.” As has been repeatedly demonstrated, however, contractors cannot build houses from drawings like those shown here without the services of an architect for the reason that it requires a man specially trained to execute a house from a drawing. It must be remembered also that some one has to make working drawings, and if it is the contractor he has to include the cost of this work in his estimate, so that the owner does not save this part of the expense in letting the contractor do all the work, nor is he likely to get the same class of house he has in mind.

An owner dealing with a contractor direct, rather than through an architect obtains only the very scantiest sort of a description of how the house is to be built, with the result that the contractor can build in almost any way he sees fit, so long as he complies in a general way with the terms of the contract. Under these conditions, the owner has little chance of recovering where poor materials and workmanship have been employed; moreover, he has no way of finding out if the contractor's price is a fair one or not. On the other hand, if the working drawings and specifications are prepared by an architect, competitive bids may be taken and the lowest price plus the architect's fee will more than likely be much lower than if the work were given directly to a contractor, and in addition the owner will be assured of a well designed, well built house.

THE architect's fee should be among the first things discussed in arranging for a house. It should be made perfectly clear in advance what the architect is to be paid for his work and what work he is to perform, for the reason that different architects charge different prices and prices vary with the amount and kind of services to be rendered. The usual fee ranges from six to ten per cent on the cost of a building. If the architect is a young man with no large amount of business on hand and an inexpensive office to maintain, he will very likely give full services for six per cent on the cost of the building. If he is a man of recognized ability maintaining an expensive office and is engaged upon many large commissions—he will charge a higher fee, and in most cases is worth it.

The architect's fee for a country house is usually paid in three parts: One-fifth of the whole when the sketches are accepted by the client, two-fifths when the estimating drawings and specifications are completed and the balance when the house is finished. If the

house is an expensive one or one that requires a long time to build the last two-fifths of the commission would probably be divided into several payments. Very often in place of commission an architect agrees upon a fixed sum for his services, and if the owner has any feeling that an architect will try to run the price up to increase his commission, he will be much wiser to settle the fee on a fixed sum basis.

One thing more:—An architect does not as a rule submit sketches “on approval,” any more than a doctor makes a diagnosis without being paid for it if his patient is found to be perfectly healthy, or a lawyer enters into the merits of a case without expecting a retainer; and while there are doubtless many men who will offer to submit sketches on approval, they should be regarded with suspicion.

Since the writer is himself an architect, the questions of the relations between architect and client and of the duties of an architect may have been unduly emphasized from one standpoint and too little from the other. It is assumed, however, that those who read this article will in most cases be “clients” and need no explanation of what their feelings are. What an architect should be expected to do for his money has been shown, as has the fact that his services are not entirely without value. As a matter of fact, an experienced architect is almost always a well informed man. If he has built many houses, he has the collective experience of many house keepers behind him. He must be something of a lawyer; and also a reasonably good business man, so that the accounts between the owner and contractor will be kept in something like order. He must be fully acquainted with the various building trades, such as mason work, carpentry, painting, tinsmithing, plumbing, heating and electric work; and he must also be an artist, able to execute in wood, brick and stone, through the medium of poorly informed and in-artistic mechanics, a beautiful house which in all respects will meet the exacting demands of the owner.

The Story of Brick

By G. C. MARS

MR. EDWARD J. BANKS, field director of the University of Chicago's Babylonian expedition, reports having found brick at Bismaya, in the Euphrates Valley, which are as good as when they were first made four thousand five hundred years before our era, and adds that there are reasons to believe that the art of brickmaking was known and practiced ten thousand years ago.

As an artificially prepared product, brick is the oldest building material known to man. From the earliest pre-historic times, the inhabitants of ancient Sumeria, Chaldea and Egypt built their houses of sun-dried brick; and centuries afterwards when history, as we know it, was just beginning to dawn, their descendants built temples, palaces and ramparts of brick. Ages before Khammurabi had given his celebrated laws to the Babylonians, before Abraham had been called from Ur of the Chaldees to the Land of Promise, or Moses had led the children of Israel out of their Egyptian bondage, the kings of Chaldea and the Pharaohs of Egypt had dwelt in houses made of brick. As to Nebuchadnezzar, King of Babylon, one of the greatest builders that ever lived and the very greatest builder in brick of all time, he is hardly worth mentioning here, as he really belongs to modern times, going back only six centuries before Christ.

The Greeks doubtless learned the art from the Chaldeans, and that too at a very early epoch, for Schliemann in his excavations of ancient Ilium, made famous by the royal battles of Achilles and Hector and celebrated in the immortal lines of Homer, found great platforms and walls built of brick.

And no less than the distinction of its great antiquity, brick can lay claim to the distinction of a world-wide use, even in very early times. For not only can China, India, Persia, Babylonia, Assyria, Egypt, Greece and Rome, in the old world, boast of ancient brick remains, but the Western world, new to its white discoverers in the fifteenth and sixteenth centuries, revealed old civilizations that had long practiced the art of making and building in brick. The Spanish Conquistadores found, among the Incas and Aztecs, houses, temples, palaces and monuments of brick.

But so far as our modern use of brick is concerned, Rome the master builder of antiquity, has been our teacher. It is probable that the Romans learned their brickcraft from the Greeks. At any rate, they carried it to the height of perfection so far as its structural value is concerned. They used extensively a hard and enduring burnt brick in the body of walls which were generally covered with stone or marble slabs or stucco—a practice still followed in Italy.

The manufacture was under government surveillance and the brick bore the name of the maker—and also that of the Consul, from the time of Trajan (98-117 A.D.). The legionaries knew the art and made brick wherever they were stationed, from which fact we can often trace their movements and the dates of their occupancy. From the Euphrates to the Pillars of Hercules and from the Libyan desert to the Firth of Forth, are found the remains—often very extensive—of Roman brickwork.

In the late imperial epoch, the brick came to be made with a finer surface and were freely exposed in courses alternating with stone. It was this practice which doubtless led to the Byzantine style of brickwork which was laid in bands of color, broadly and strongly marked—a style widely employed in ecclesiastical building, and still frequently seen in the Russian churches of today as an inheritance of Byzantine culture.

With the decay of the Roman Empire in the West, the Church took up and carried on the brick tradition in its ecclesiastical structures. In those countries where stone was rare, such as Northern Italy, Southern France, and the low lands of Northern Germany, brick enjoyed during the Middle Ages an extensive use.

It was not, however, until after the Crusaders had stirred the mind of Europe to a new life, preparing the way both for the great Gothic period of architecture in the thirteenth century, and for the industrial activities of the free Communes, that brick entered upon its palmy days and became a natural and popular material for building, in the hands of the great free mason guilds of the period.

In Northern Italy, the brick used were exclusively red, fine examples of which are found in the churches, palaces and public buildings of Siena, Milan and Bologna—sometimes laid, after the old Roman manner, in alternating courses with stone.

But it was especially in the North of Europe that brickwork flourished at this time. The great burgher towns of the Hansa in

Northern Germany and Flanders, growing in wealth and power, vied with each other and spared no expense, in adorning their cities with splendid buildings, both public and private, most of which were in brick—as witness the famous belfry of Bruges, of the thirteenth century, celebrated in the lines of Longfellow; the great Hall at Antwerp, of the fifteenth century; or the Rathaus, of the fifteenth, and the stately Marienkirche, of the thirteenth century, at Lubeck.

Although quite apart from the general current of European life, and whether influenced by their Christian neighbors or their co-religionists of Africa, who drew their inspiration from Byzantine art, the Moors of Spain revealed splendid ability in the handling of brick and employed it with striking effect, as we may see in such noble structures as the Alhambra at Granada and the mosque, now cathedral, of Cordova.

WHEN the Renaissance, in the sixteenth century, broke over the Alps into France and Germany, brick practically disappeared from public building in those countries, and did not get back its old medieval prestige until the middle of the last century, when the wonderful advances in the technique of its manufacture revealed its possibilities, especially in Germany, to the builder and architect. In the Low Countries, Holland and England, however, it held its own and even made substantial gains, as in England.

This gain in England is easily explicable when it is remembered that, with the Renaissance in England, brick and its possibilities of manufacture were essentially a rediscovery. In England, as the Roman province of Britannia, brick were made and extensively used for nearly four hundred years until the Legions were recalled at the beginning of the fifth century to protect Rome, trembling before the onrush of the northern invaders. From that time on, until the thirteenth century, the only brick used in England were those taken from the Roman remains. In the time of the first two Edwards (1270-1327), it is probable that the Flemish mode of brickmaking and the style of building pointed gables were introduced into England, but there was no general manufacture and use of brick in that country until the fifteenth century, and then only for important buildings.

In the days of Henry VIII (1509-1547), however, when the Renaissance was beginning to be felt in the Island Kingdom, brick and its uses were brought to a high state of perfection, a fact probably

due to Henry's encouragement of artisans from Flanders. In the following century, the great London fire, 1666, not only transformed that city from a wooden to a brick town, but gave a great spur, all over England, to the development of the manufacture and use of brick, as well as to its ornamental treatment.

After the Renaissance had run its course, brickwork for a time declined in England, but in the days of Queen Anne and the Georges, or during the 18th century, it regained favor and became the honored medium for the expression of that comfort and dignity which we so often see in the fine old country houses scattered throughout England. It was this style that exercised the great formative influence on our own simpler colonial architecture, both of the North and of the South.

In the early days of the American colonies, small quantities of brick were imported from Holland and England, and doubtless from time to time they were brought to the colonies in Dutch and England bottoms as ballast. But the colonists did not at all depend upon such sources for their supply of brick; for American brick-making, according to the most reliable data, was established at a very early period and was well able to supply the home market.

Davis in his *Practical Treatise on the Manufacture of Brick*—followed by the *Encyclopedia Britannica*—informs us that the first brick house in this country (no longer standing) was erected on Manhattan Island in 1633 by Wouter Van Twiller of Amsterdam, a governor of the Dutch West Indies Company, and that the first brickmaking in the colonies was at New Haven in 1650. The claim made for the Cradock House (still standing) at Medford, Mass., that it was built in 1634 is denied by certain authorities, who attribute it to Peter Tufts and assign the date 1677-80.

So far as the introduction of brickmaking into this country is concerned, the new *International Encyclopedia* is authority for the statement that brick were made in Virginia as early as 1612, which would seem to indicate that brick houses must have been built in Virginia as early as that time, a conjecture confirmed by evidence cited in Bruce's *Economic History of Virginia in the Seventeenth Century*. This earlier date for brickmaking in the colonies is substantiated by the historical studies of Ries & Leighton, who in their *History of the Clay Working Industry in the United States*, give the following localities with their dates: Virginia, 1611; Massachusetts

and New York, 1629; Maine, 1635; North Carolina, 1663; Rhode Island, 1680; Pennsylvania, 1683. And so prosperous had the industry become by the end of the eighteenth century, continue these authorities, that brick were being exported from this country. In 1791, the export of brick amounted to 743,000. From that time on, American brickmaking has followed the natural growth of the country, until today, in point of quantity and quality, it leads the brickmaking industry of the world.

This growth of brick manufacture has exercised a very wholesome and potent influence in furthering a purer and sounder style of domestic architecture which, during the middle of the century, fell into the slough of a bastard classical or Renaissance eclecticism, or of Rococo and Baroque monstrosities.

The Georgian influence, largely the result of the school of such eminent architects as Inigo Jones, Sir Christopher Wren, and Sir William Chambers, made itself felt in the English colonies along our coast, and was adapted to the uses of either the simple Round Head of New England or the more pretentious Cavalier of Virginia. This colonial style presented very worthy types of domestic architecture, the simple merits of which have been widely appreciated in our more modern style of building. During the past decade or two, especially, this simpler style has been freely adopted—and adapted to our needs—or a simple and graceful form of line and curve has been used in creating a style that meets the practical uses of our modern world, as well as the requirements of artistic taste.

THE great variety of beautiful face-brick now manufactured naturally appeals to the architect as offering an opportunity in the wall surface for the exercise of his finest artistic efforts. In his skilful hands, the selection of the bond, the treatment of the mortar joint, and the color tone and texture of the brick, are so many varied and variable elements with which he can weave a fabric of great beauty. The distinction of brickwork is that, by reasons of its numerous units, it is a plastic material, yielding to every touch of the architect. So that the result, like every work of art, has a distinct life, character and individuality of its own, such as no other material, except marble or stone in vast structures, can give. Although rivaling marble or stone in its adaptability to pretentious buildings, brick has the advantage of being peculiarly fitted for the

architecture of the home. And here it offers not merely the highest artistic merit, but pre-eminently stands for comfort, safety and economy. Once built, a brick house requires no expenditure for the maintenance of its wall surface; it defies the corrosion of the elements; as a product of fire, it scorns conflagration; and offers comfort in all seasons of the year.

Of the manufacturers of face-brick in America, for the quality, quantity and variety of product, the Hydraulic-Press Brick Company holds the leading place. Established in St. Louis, in 1868, it steadily won, by the quality of its product and the efficiency of its service, the approval of the brick world, until today it works numerous clay deposits in ten different states, and keeps its fires burning in twenty-two different plants.

In the main, there are two kinds of brick made by the Hydraulic-Press Brick Company, the dry-pressed and the wire-cut brick, both indicated in the name Hy-tex.

The dry-pressed brick are for the most part made of alluvial or fire clays, first seasoned and then, after being ground to a coarse powder, submitted in the hydraulic machine to a pressure of many tons. Such a machine will turn out from 20,000 to 50,000 brick a day, hard enough, in their green state, to be handled with impunity, the number depending not only on the size of the machine but the nature and condition of the clay. A day or so suffices to dry out the superficial moisture—for it must be understood that “dry-pressed” does not mean absolutely “dry”—when they are ready to be stacked or “set” in the kiln, in number all the way from 50,000 to 600,000, and subjected to a temperature that may rise to 2500 degrees Fahrenheit, for a period of from six to eleven days. They are then said to be burned off, when the kiln is allowed to cool and the brick sorted and piled in sheds, or shipped to the point of operation.

These brick are usually burned in either up-draft or down-draft kilns, although in certain localities the continuous kiln is employed. In up-draft kilns, the flame passes directly up through the brick from the bottom to the top of the kiln. Down-draft kilns are so contrived, by means of a bag wall, that the flame is prevented from striking the brick until it has first reached the top of the kiln, when it pours down through the brick to the flues. In the continuous kiln, the flame is drawn horizontally through the brick mass. The way in which the brick are “set” and the method of burning result in

producing various effects, so that various kinds of brick are produced in the same kiln—known when taken promiscuously as the kiln-run. It is this hydraulically pressed brick that puts the “Hy” in Hy-tex.

The wire-cut brick are made in an entirely different way and usually of a different material. Instead of clay, shale for the most part is used which, when chemically considered, is indeed clay but differs from it greatly in physical constitution. Shale is a clay which has geologically been subjected to such pressure that it has become very hard and has reached the consistency of soft stone, just short of the laminated condition of slate. Shale when found in deep deposits is mined very much as soft coal, and is approached either by drifts or vertical shafts.

For brickmaking, it is crushed and reduced to the consistency of stiff mud—hence the term stiff-mud brick—when it is run through a machine, terminating in a die, from which it is forced upon a long table in the form of a rectangular strip or ribbon, with a cross section slightly greater than that of the standard brick—to allow for shrinkage—and is cut into proper lengths or widths by fine wires revolved as the diameters of a wheel. These machines can turn out all the way from 40,000 to 100,000 brick a day, and these, after being dried, are set in the kiln and burned in the same manner as the pressed brick.

In case face-brick of a certain variety are wanted, the stiff-mud ribbon, which is smooth as it issues from the machine, may be left smooth, or scraped with a wire to produce a rough or matt surface. This roughening of the mud ribbon, in various ways, gives a variety of pleasing effects to the finished brick surface, which has become very popular in recent years among architects and builders. Although every kind of brick, rough or smooth, has a surface texture of its own, it is these artificially roughened, or matt, brick to which the name texture, in one form or another, is usually applied—and they are responsible for putting the “tex” in Hy-tex.

THE Hydraulic-Press Brick Company justly prides itself on a third kind of brick, which is the finest and most expensive brick on the market, although the most economical when its durability and perfect finish are taken into consideration. They are the enameled or Hy-namel brick. For a number of years the Hydraulic-Press Brick Company bent its resources on producing an enameled

brick that could compete with the fine imported English variety. As in many like cases, repeated experiment almost ended in despair; but persistence won the day, and a brick was finally produced that not only equaled the imported competitor, but surpassed it.

The Hy-namel brick stands unrivaled in the beauty and durability of its enameled surface. That it can be offered as neither scaling, crazing, or discoloring, is due to the thorough and skilful method of its manufacture. The dry-pressed brick is first prepared as a thoroughly fired biscuit. It is then treated with the enamel finish and burned again, much as fine porcelain is burned. The trouble taken is more than repaid by the satisfaction it gives the manufacturer and the service it renders the builder. So sure is the Company of the entire soundness of these brick, that it guarantees their durability and freedom from defect.

Closely allied to Hy-namel are the Porcelain and Salt Glaze varieties. To secure the Porcelain surface, the brick is mechanically treated with a preparation which is thoroughly burned into the clay, producing color effects that run through a beautiful range of grays. The Salt Glaze is secured in the kiln during the process of burning and is a smooth impervious surface admirably suited to meet the requirements of sanitary construction. But while the Porcelain and Salt Glaze brick approach in appearance and function the Hy-namel, they belong in reality to the class of Hy-tex brick.

By no means the least advantage in dealing with the Hydraulic-Press Brick Company is its entire responsibility. Well-nigh fifty years of operation has not only put it in the forefront of the face-brick manufacturers of the world, but gives it the capacity to meet with prompt efficiency every demand, no matter how large, made upon it. Hy-tex brick are found in thousands of modest homes, small stores, and little churches and schools all over our country; but they are also found in thousands of palatial residences, university buildings, great churches and schools, lodges and temples, towering sky-scrapers, and public buildings.

There is, however, no problem of building that comes so near to a man's heart—or to his purse—as the problem of a home, and the man who is thinking of building a home cannot afford, viewed from the standpoint of real economy, comfort, fire-safety or beauty, to proceed until he familiarizes himself with the merits of Hy-tex.



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Look for this Name on
the Brick You Buy.

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Porcelain
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Press
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Rough Wire-cut
Smooth Wire-cut



The Standard of
Quality in Brick.

EVERY COLOR

Cream
Gray, Buff
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Red
Velour
Bronze
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Have a home you can call your own. "There's no place like home," is not only poetry, but hard solid fact.

The best property, financially and sentimentally, to have in your own name is your home. It is one of the inalienable rights of every American citizen to be a home owner, to have a place absolutely sacred to himself and his family; into which no unwelcome guest may intrude; and where he can, as in his own castle, defy the slings and arrows of outrageous fortune. A homeless man is like a man without a country.

A-B-C OF HOME BUILDING

A—Build your home the way you want it, and do not be compelled to take a house the way the landlord wants it.

B—Build it of Brick. For a home, brick is more economical than stone, more lasting, comfortable, and secure than frame, more real and living than stucco or cement — and may be made more beautiful than any of them.

C—Build your home of Hy-tex Brick, as the latest word in brickcraft. There are one hundred different forms, color tones, and surface textures to choose from. Every Hy-tex brick is sound to the core and rings like a bell. To tell your friends that your home is built of Hy-tex brick is equivalent to telling them that you have the best and most beautiful material that the art of moulding and burning brick can produce.

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